GB

Operating Manual

Network Server, Video/Audio, 1 Channel, H.264, MPEG-4, MJPEG

GLS-2302H

eneo®

(D) Betriebsanleitung
(GB) Installation and Operating Instructions
(F) Mode d'emploi
(PL) Instrukcja instalacji i obsługi

⇒ www.videor.com
www.eneo-security.com

Contents

1. Safety Instructions / Maintenance....4
2. Product Features....5
   - 2.1 Product Introduction....5
   - 2.2 General Description....6
3. Description of the Front/Rear View....7
   - 3.1 Front Panel....7
   - 3.2 Rear Panel....7
   - 3.3 The DI/DO Schematic....8
   - 3.4 The USB Function....9
4. Installation....10
   - 4.1 Connecting with a Camera....10
   - 4.2 Updating System Software....10
5. Network Configuration....11
   - 5.1 Cable Connections....11
   - 5.2 Configure your Video Server Network Settings....12
     - 5.2.1 Enable DHCP Function....12
     - 5.2.2 Set IP Address....13
   - 5.3 TCP/IP Communication Software....14
   - 5.4 TCP/IP Installation....16
   - 5.5 TCP/IP Configuration Setting....17
   - 5.6 Connection Testing....18
6. Operating Instructions for Image Software and Network....20
   - 6.1 Microsoft Internet Explorer....21
     - 6.1.1 Connecting the Video Server....21
     - 6.1.2 Live Video....22
     - 6.1.3 Setup....24
7. Advanced Operation....62
8. Specifications....65
9. Dimensional Drawings....67

APPENDIX 1 – How to run the Video Server UPnP....68
APPENDIX 2 – Register as a DDNS Member....79
APPENDIX 3 – MPEG4 Bit Rate Table for the Video Server....83
APPENDIX 4 – PoE Installation Method....84

1. Safety Instructions / Maintenance

- Read these safety instructions and the operation manual first before you install and commission the unit.
- Keep the manual in a safe place for later reference.
- The system may only be commissioned and maintained by personnel authorized to do this and it must only be carried out in accordance with relevant standards and guidelines.
- Never cover the ventilation slots to avoid overheating.
- Never insert metal objects or any other items into the vents. This may permanently damage the unit.
- Protect your unit from contamination with water and humidity to prevent it from permanent damage.
  Never switch the unit on when it gets wet.
  Have it checked at an authorized service center in this case.
- Never operate the units outside of the specifications as this may prevent their functioning.
- Do not operate the unit beyond their specified temperature, humidity or power ratings.
- The unit should be protected against excessive heat, dust, damp and vibration.
- Do not place any heavy objects on the unit.
- To disconnect the power cord of the unit, pull it out by the plug. Never pull the cord itself.
- Pay attention when laying the connection cable and observe that the cable is not subject to heavy loads, kinks, or damage and no moisture can get in.
- Contact your local dealer in case of malfunction.
- The connection cable should only be changed by Videor E. Hartig GmbH.
- Installation, maintenance and repair have to be carried out only by authorized service centers.
  Before opening the cover disconnect the unit from mains input.
- The warranty becomes void if repairs are undertaken by unauthorized persons. Do not open the housing.
- Only use original parts and original accessories from Videor E. Hartig GmbH.
- Do not use strong or abrasive detergents when cleaning the dome. Use a dry cloth to clean the dome surface.
  In case the dirt is hard to remove, use a mild detergent and wipe gently.

NOTE: This is a class A digital device.
This digital device can cause harmful interference in a residential area; in this case the user may be required to take appropriate corrective action at his/her own expense.

2. Product Features

2.1 Product Introduction

The Video Server Encoder is a versatile solution that allows you to make the most of your existing analog surveillance infrastructure. The Video Server is a standalone system with a built-in video encoder that converts an analog camera into a full-featured IP-based system. The Video Server can be remotely accessed and controlled using a Web browser over an Intranet or the Internet.

The Video Server's Video Encoder makes it possible to integrate a pre-existing analog surveillance infrastructure into a fully-functional IP surveillance system. The Video Server is an ideal choice for banks, airports, factories, government buildings, prisons, and traffic surveillance applications - any location where surveillance equipment is already installed and functioning.

This video server adapts Texas Instrument's (TI's) newest digital media processor -- the TMS320DM 365 for efficient image operation, while also offering simultaneous triple-codec (H.264 / MPEG-4 / MJPEG) video compressions with the highest resolution of Full D1, at 30 / 25 frames per second in the NTSC / PAL systems, respectively. In addition, users based on different bandwidths can choose multi-profile video streaming at different resolutions.

The video server provides stable, reliable and convenient network surveillance. It safely downloads automatic video codec and other components, and lets you set up the control settings very easily. It provides UPnP features as well. Its USB interface is for basic network setting and updating. The SD card slot supports alarm and event recording and updating. Furthermore, this encoder board comes with the Power over Ethernet (PoE) function, and its RS-485 interface can be connected with all kinds of Pelco-D PTZ cameras.

Alarm handling features provide alerts in the event of loss of video or loss of network connection. Motion alarms with configurable detection areas allow for effective surveillance and help to mitigate the need for constant human supervision. A buffer system allows the server to capture images to the built-in SD card slot before and after an event occurs.

We have launched this triple-codec video server for the more advanced digital surveillance solutions demanded by our clients. We believe this unit is the right answer to your Network surveillance problems. You will find it practical, precise and indispensable.

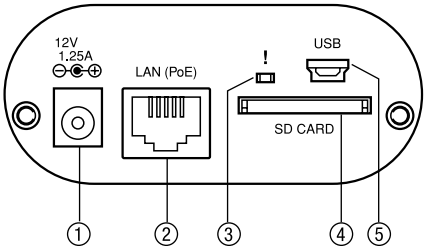
2.2 General Description

- 1 channel video/audio server for LAN/WAN
- Resolution 720 x 576 max.
- Simultaneous video streaming (H.264/MJPEG/MPEG-4)
- USB connector for configuration
- Shared access (up to 10 simultaneously)
- Up to 3 password levels
- Integral motion detection
- Audio and alarm input and outputs
- Alarm-recording (Micro SD card/SDHC)
- ONVIF conformity
- Privacy zone masking
- Client management software included

FACTORY DEFAULT	• **IP Address:**	**192.168.1.168**
	• **Password:**	**9999**

3. Description of the Front/Rear View

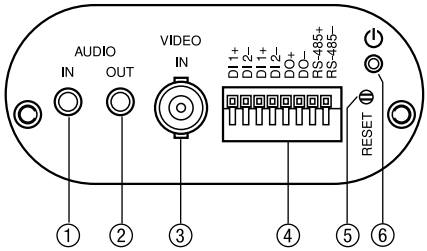
3.1 Front Panel



1. **Plug Inlet:** A DC 12V inlet that connects to an external power supply.
2. **ETHERNET 10/100 connector:**

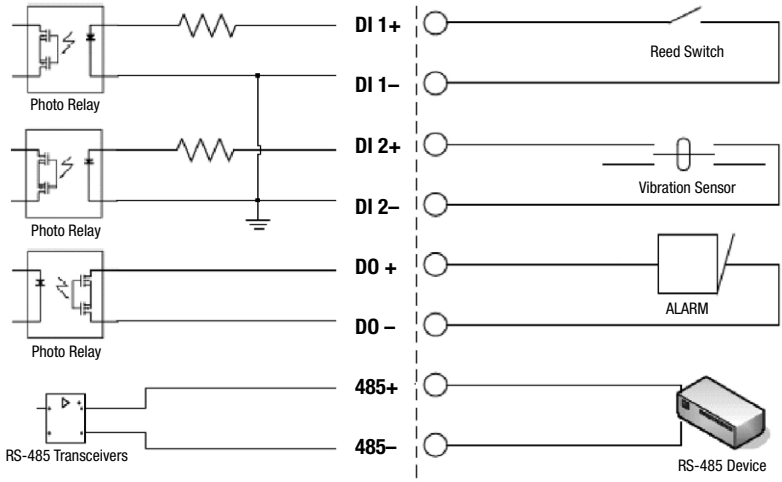
   This is a standard RJ-45 connector for 10/100 Mbps Ethernet networks. PoE (Power over Ethernet) function: Provides power to the device via the same cable as used for the network connection.
3. **SD indicator:** The green light indicates the SD card cannot be removed.
4. **SD/SDHC CARD slot:** This is used for updating system software and archiving / accessing critical images.
5. **USB port:** The user can use a USB device cable to connect the Video Server to the USB port on the PC.

3.2 Rear Panel



1. **AUDIO IN:** The connector is used to connect the audio output from other devices to the Video Server.
2. **AUDIO OUT:** Provides the Video Server's audio signal to a speaker or stereo
3. **Video in connectors:** The BNC connector is used to connect to the video output from the camera.
4. **ALARM I/O:** This is an 8-PIN connector including the DIGITAL IN/OUT and RS-485 items for connecting with external devices.
5. **RESET:** Returns to factory default
6. **POWER indicator:** Indicates the power status of the unit

3.3 The DI/DO Schematic



DI	Receives signals from a reed switch, vibration sensor, or any other external security device
DO	Connects to an alarm or buzzer
485+/485-	Connects to an RS-485 interface for controlling auxiliary equipment such as an external camera enclosure for pan, tilt, and zoom functionality

3.4 The USB Function

By connecting the Video Server board with a PC via the USB connector, the Video Server board can provide different functions.

1. **Insert an SD card:** As a card reader

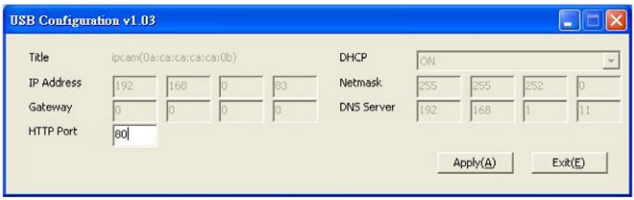
   Insert an SD card into the Video Server, then connect to the PC. You might transfer files between the SD card and the PC. Once you've connected your Video Server to your computer, the Windows system will detect the connection and ask you what you want to do with your SD card.

   In other words, if the user connects the Video Server with an SD card and the PC via the USB connector, the Video Server can be used as a normal card reader.

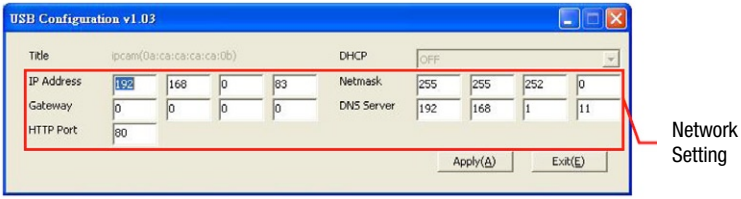
2. **Remove an SD card:** As a configuring tool

   By connecting the Video Server with a PC via the USB connector, you can set the Network and PPPoE functions of the Video Server directly by your PC.

DHCP ON



DHCP OFF (default)



NOTE: After changing the settings, please click the „Apply" button. All of the options will be effective after removing the USB connector.

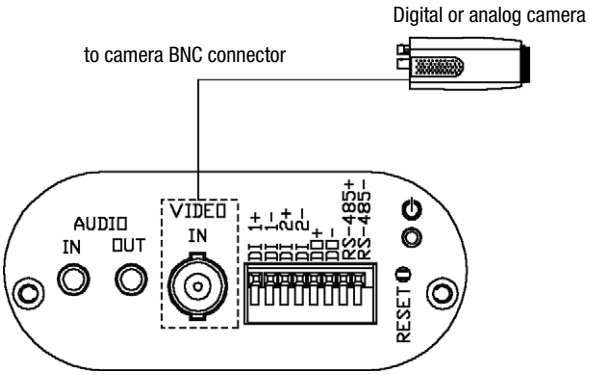
NOTE: After the IP address has been changed, please unplug the network cable, then plug it once again to make sure the network connection is in normal mode.

4. Installation

Please follow the instructions and the diagram below to set up the system.

NOTE: The Video Server is linked by its Video Out connection via a BNC connector to a monitor's Video In connection. If this connection is there, you can see some information on the monitor screen, such as the Video Server factory default Static IP address (192.168.1.168). But the Video Server Static IP address can only appear if there is a connection between the Video Server and another device. If there is no such connection, the Video Server factory default Static IP address will not appear on the monitor screen.

4.1 Connecting with a Camera



4.2 Updating System Software

If the system software of the Video Server needs to be upgraded, please take the following steps to safely process it.

IMPORTANT: Before carrying out the following procedures, please ensure the SD card is working and the file of the system firmware is intact

1. Create a directory named **UPGRADE** (upper-case or lower-case letters are no difference) in the SD card if it does not exist.
2. Copy the file of UPDATE.BIN to the **UPGRADE** directory.
3. If the Video Server is running, please power it off first.
4. Insert the SD CARD into the Video Server.
5. Remove the Ethernet cable from the RJ-45 port and then power on the Video Server.

6. In 5 to 10 seconds, a message reading „UPDATE PROCESSING" will show up on the screen on a blue background; if not, please check out steps 1 to 6 carefully or else inform your technical support while ignoring the following steps.
7. DO NOT power off the Video Server while this update process is running until the message „UPDATE OK RESET PLEASE" appears on the screen; it might take 15 to 30 seconds to appear.
8. If the message „UPDATE NG RESET PLEASE" appears rather than „UPDATE OK RESET PLEASE", please write down the error messages shown on the screen and inform your technical support, while ignoring the following steps.
9. Power off the Video Server when this update process is finished, then remove the SD card from the Video Server.
10. Reconnect the Ethernet cable to the RJ-45 port if necessary.
11. Power ON the Video Server and it will work normally if the entire update procedure goes correctly.
12. Verify the version of the system software.

WARNING:

1. **Steps 1 to 3 have to be done on a PC.**
2. **Make sure the file of UPDATE.BIN is a correct one in step 3, or the VIDEO SERVER will not work normally after being updated.**
3. **If the power of the VIDEO SERVER is suddenly lost in step 8, please remove the SD card first and turn on the VIDEO SERVER next to test its operation. If the VIDEO SERVER remains working normally, please go back to step 4; otherwise, please inform your technical support.**
4. **In step 10, if the SD card is not removed and the Video Server does not get online as well, the updating process must be repeated again after rebooting the Video Server.**
5. **Make sure that the SD card is inserted in a correct position in step 5, or the Video Server will suffer permanent physical damage.**
6. **If the message „CSUM ERROR" appears in step 8, it implies a problem in the file of UPDATE.BIN.**
7. **Don't interrupt the process while the unit is updating itself; proceed with an SD card not including any system software of the unit, or else the unit will crash.**

5. Network Configuration

5.1 Cable Connections

Please follow the instructions below to connect your Video Server to a computer or a network and to choose a proper RJ-45 cable configuration for connections.

Physical specification of RJ-45 cable for Ethernet

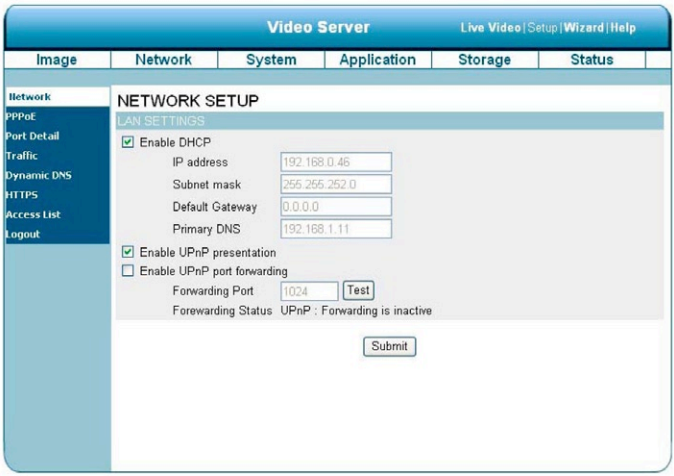
Wire Type	**Cat. 5**
Connector Type	RJ-45
Max. Cable Length	100m
Hub Wiring Configuration	Straight Through
PC Wiring Configuration	Straight Through

5.2 Configure your Video Server Network Settings

Upon connecting with the network hardware, you need to activate the network function and configure the proper network settings of the Video Server.

5.2.1 Enable DHCP Function

The user can use the USB function (refer to section 3.4) or the Internet Explorer (refer to section 6.1.3.3) to enable the DHCP function.



5.2.2 Set IP Address

You need to set an IP address for the unit if the LAN unit isn't connected to a DHCP server. Otherwise, please follow the instructions given below:

Set the **IP**, **MASK** and **GATEWAY**. The following is a sample setting.

IP: 192.168.1.X

MASK: 255.255.255.0

GATEWAY: 0.0.0.0

NOTE: When only one unit of the Video Server is connected to a computer or LAN, you can freely assign an IP address for the Video Server. For example, there are a range of Video Server IP addresses from 192.168.1.1 to 192.168.1.255. You can pick one for use from the range of the IP. It's not necessary to set MASK and GATEWAY; leave the settings as default.

When a Video Server is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please contact a qualified MIS professional or your ISP.

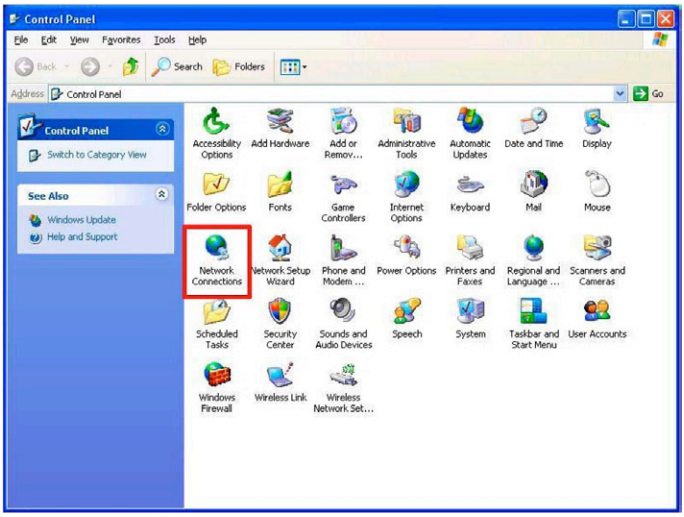
NOTE: When connecting to a network, each connected Video Server must be assigned a unique IP, which must be in the same class type as your network address. IP addresses are written as four sets of numbers separated by periods; for example, 192.168.1.1 Therefore, if the connected network is identified as Class C, for example, the first three sets of numbers of the Video Server IP address must be the same as the network address. If the connected network is identified as Class B, the first two sets of numbers of the Video Server IP address must be the same as the network address. If you have any questions regarding these settings, please contact a qualified MIS professional or your ISP.

5.3 TCP/IP Communication Software

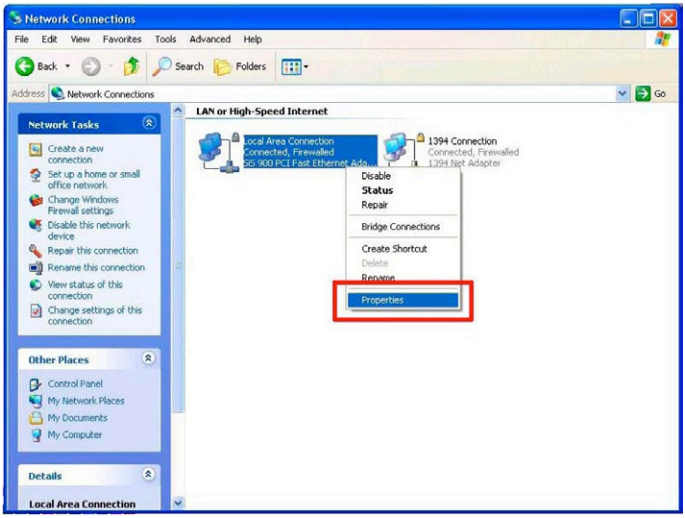
Follow the instructions below to install the TCP/IP communication program into your computer.

1. Click **Start**, and then click **Control panel.**

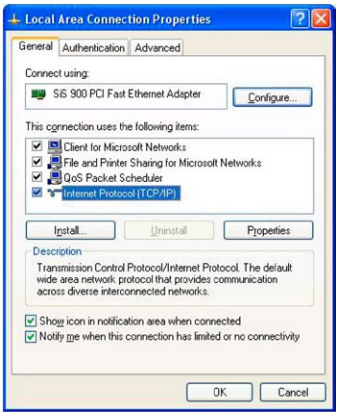
2. Double click the **Network Connection** icon to enter the windows.



3. Right-click your network connection, and then click **Properties**.

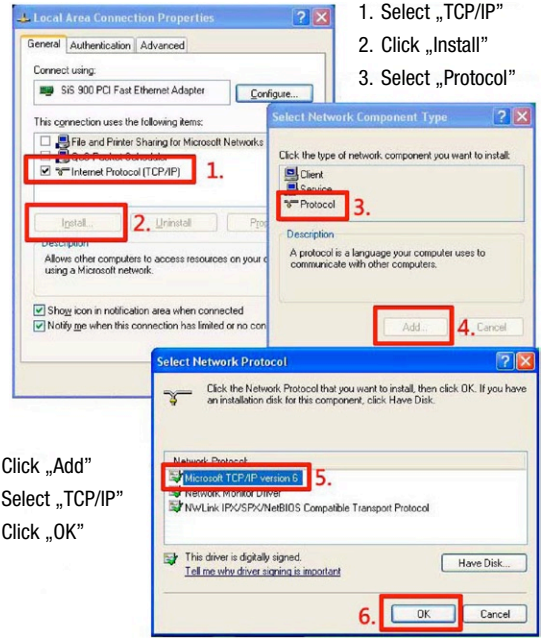


4. On the **General** tab, check if the Internet Protocol (TCP/IP) is included in the list. If the TCP/IP is included, please process section 5.5. If it is not included, please follow section 5.4 to install the TCP/IP.



5.4 TCP/IP Installation

On the **General** tab of the Connection Properties, under „This connection uses the following items", click **Internet Protocol (TCP/IP)**. Then click **Install**. Select **Protocol** from the network component type then click **Add**.
Select **Microsoft TCP/IP** from the network protocol then click **OK**.



1. Select „TCP/IP"
2. Click „Install"
3. Select „Protocol"
4. Click „Add"
5. Select „TCP/IP"
6. Click „OK"

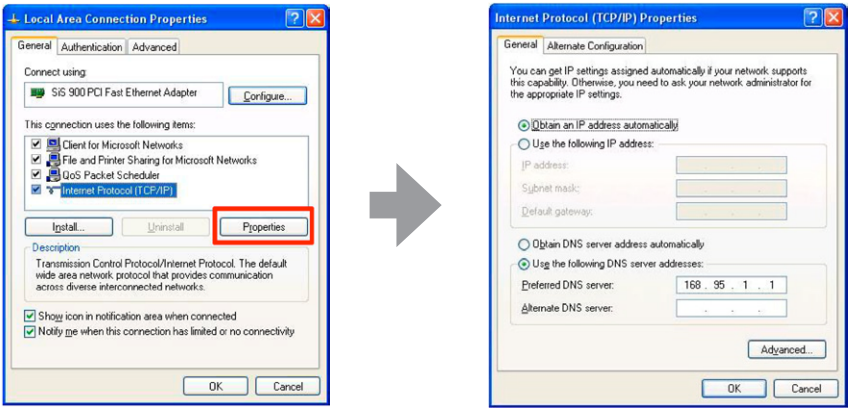
Click **Close** to return to the **Network Connections** window.

5.5 TCP/IP Configuration Setting

Click **Start –> Control Panel –> Network Connections**

Select **Internet Protocol (TCP/IP)**, and then click **Properties**.

Before processing the Video Server installation in a WAN, please make sure the Internet connection works properly. If not, please contact your ISP provider.


Local Area Connection Properties
General
Authentication
Advanced
Connect using:
SiS 900 PCI Fast Ethernet Adapter
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
Notify me when this connection has limited or no connectivity
OK
Cancel
Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
168 . 95 . 1 . 1
Alternate DNS server:
Advanced...
OK
Cancel

If you are using a DHCP server, please select **Obtain an IP address automatically**. Any assigned IP address for the connected Video Servers must be in the same class type as the server. If there is no DHCP server, please select **specify an IP address**, enter the IP address, subnet mask and default gateway of your choosing of your PC. This IP address must be different from other network IP devices but in the same class type.

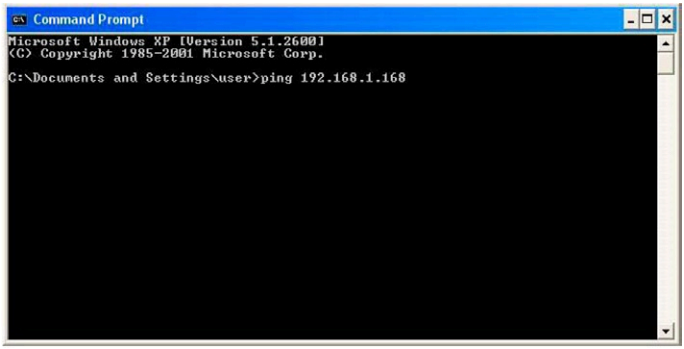
NOTE: The IP address of a Video Server in a network must be unique to itself as opposed to those of the other chosen PCs, but in the same class type.

5.6 Connection Testing

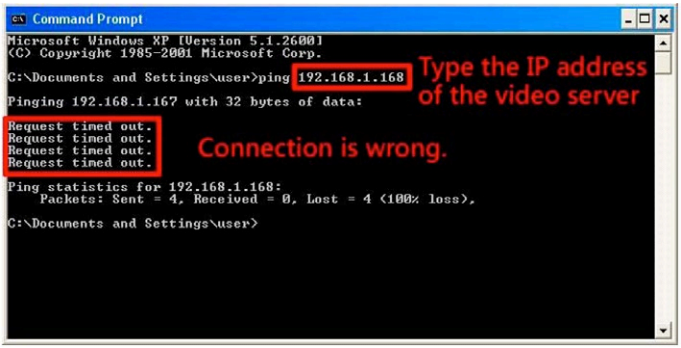
With the previous settings, follow the instructions below to ensure whether you have established the connection successfully.

1. Click **Start –> All Programs –> Accessories –> Command Prompt**

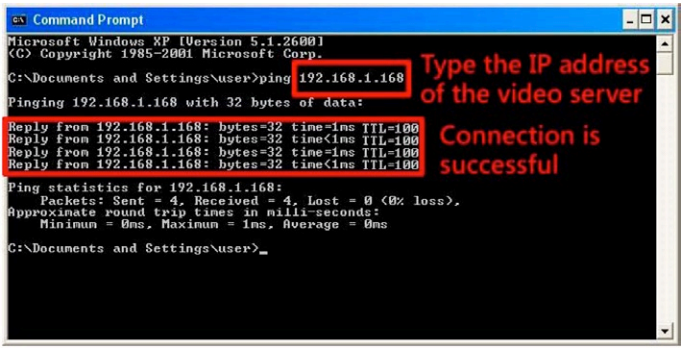
2. Enter **ping XXX.XXX.XXX.XXX** (the Video Server's IP address), then enter. (See the sample screen below).
   *** This is the IP address for a Video Server that is assigned for the connected Video Server.*


Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\user>ping 192.168.1.168

If you receive a response as in the sample screen below, the connection hasn't been successfully established.
Please re-check all the hardware and software installation by repeating sections 5.4 to 5.5.
If you still can't establish the connection after re-checking, please contact your dealer.


Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\user>ping 192.168.1.168
Type the IP address of the video server
Pinging 192.168.1.167 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Connection is wrong.
Ping statistics for 192.168.1.168:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Documents and Settings\user>

If you receive a response as in the sample screen below, you have successfully made the connection.


Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\user>ping 192.168.1.168
Type the IP address of the video server
Pinging 192.168.1.168 with 32 bytes of data:
Reply from 192.168.1.168: bytes=32 time=1ms TTL=100
Reply from 192.168.1.168: bytes=32 time<1ms TTL=100
Reply from 192.168.1.168: bytes=32 time=1ms TTL=100
Reply from 192.168.1.168: bytes=32 time<1ms TTL=100
Connection is successful
Ping statistics for 192.168.1.168:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\Documents and Settings\user>

6. Operating Instructions for Image Software and Network

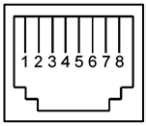
Two choices of software are available for linking up with the Video Server: (1) the Microsoft Internet Explorer; and (2) the Video Server viewer software, a network browser in a PC which provides the functions of monitoring remote zones or watching recorded data through the TCP/IP protocol.

The details are listed as follows:

RJ-45 PIN configuration for Ethernet

PIN NO.	PIN Assignment
1.	TX +
2.	TX -
3.	RX +
4.	Not Connected
5.	Not Connected
6.	RX -
7.	Not Connected
8.	Not Connected

RJ-45 socket



Physical specification for Ethernet

Wire Type	**Cat. 5**
Connector Type	RJ-45
Max. Cable Length	100m
Hub Wiring Configuration	Straight Through or Cross Over
PC Wiring Configuration	Straight Through or Cross Over

6.1 Microsoft Internet Explorer

6.1.1 Connecting the Video Server

1. Start up the Microsoft Internet Explorer, and then follow the steps below to connect the Video Server.
2. Click the URL block at the top of the window.
3. Enter the URL address of the Video Server into the URL block and press the **„Enter"** button to enter the home page.
4. Now the page headlined „Enter Network Password" will appear.
5. Enter the „User Name" and „Password" in the appropriate spaces.
6. Click the **„OK"** button to set your entries, and automatically exit the page.

NOTE: The default „User Name" and „Password" are admin and 9999 respectively.

NOTE: The page headlined „Enter Network Password" is shown below. Please enter the user name and password of the Video Server when you see it. If either the user name or the password is incorrect, please check the input data and rectify it if and as necessary.

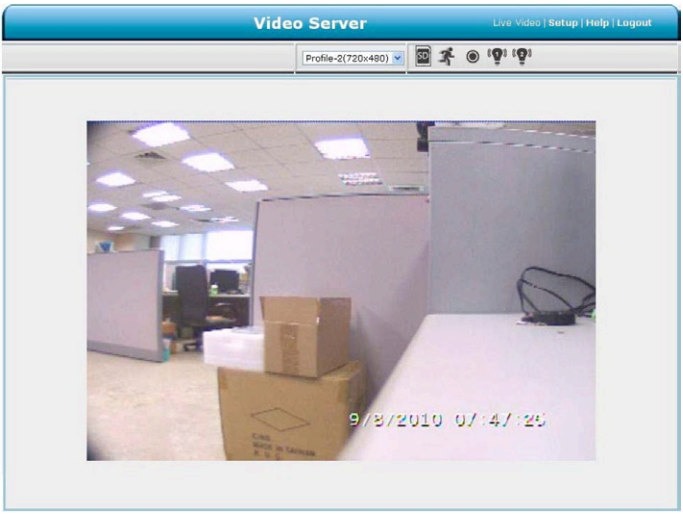
NOTE: Once authorized successfully, the login page will not appear again until you close the window and reconnect it.

NOTE: The initial sequence of proceeding is to type in your IP address and click the „Enter" button to access the home page. If and when you revise or change data in the „SYSTEM USERS" page, the sequence will alter to initially show the „Enter Network Password" page.

6.1.2 Live Video

The Live Video from the Video Server is displayed on the home page when your PC is online with the Video Server. There are also additional settings provided on the home page. The AJAX (default) and the ActiveX viewer types display different display formats on their home page.

The AJAX viewer type: Non-IE browsers support (for the JPEG mode only)

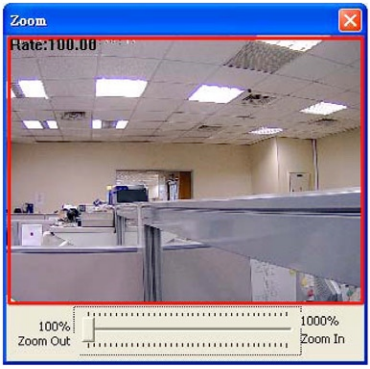


- Click Profile-1(640x480) to change the pairs of resolution and quality which you already arranged in the „Audio and Video" setting page (for the JPEG mode).
- SD card icon: Check if the SD card is inserted or not. When an SD card is inserted, the icon becomes red .
- Motion-on icon: When there is a detection of motion, the icon will appear in the upper right corner to warn the user. When the motion detection is triggered, the icon will blink red .
- Status Recording on icon: The icon will appear on the upper right corner. When the recording is triggered, the icon will become red and record the images into the inserted SD card.
- Alarm on-icon: When there is a detection of external devices such as a sensor, the icon will appear on the upper right corner to warn the user. When an alarm is triggered, the icon will blink red .
- Alarm on-icon: When there is a detection of external devices such as a sensor, the icon will appear on the upper right corner to warn the user. When an alarm is triggered, the icon will blink red .

The ActiveX viewer type:

You can select from the available thumbnails for your option of taking a Snapshot, setting the Storage Folder, selecting the Full Screen mode, Recording, Listen, Talk, and Zoom.

- Snapshot: Click on the button to take a snapshot. The icon will change to a blue colour while working effectively.
- Set Storage Path: Click on the button to set a storage folder for saving the snapshot and the video clips.
- Full Screen: Click on the button to enter the full screen mode. The icon will change to a blue colour while working effectively.
- Record switch: Click on the button to record a video clip. The icon will change to a blue colour while working effectively.
- Audio switch: Click on the button to start/stop the audio-in function (listen/stop listening). The icon will change to a blue colour while working effectively.
- Talk switch: Click on the button to start/stop the audio out function (talk/stop talking). The icon will change to a blue colour while working effectively.
- Digital output: Click on the button to start/stop digital output. The icon will change to a blue colour while working effectively.
- Zoom: Click on the button to bring a popup „Zoom" window. The icon will change to a blue colour while working effectively. Move the scrollbar „square" right or left to zoom in or zoom out the Live View, and the red „Active Frame" will be narrowed down or enlarged. You can drag the „Active Frame" to the desired position to see the detail of the live image.



- Live Video: Click to go back to the device's homepage.
- Setup: Click to proceed to the advanced settings.
- Logout: Click to close the window.

6.1.3 Setup

Click on the **Setup** button on the home page to proceed to the advanced settings.

6.1.3.1 Setup Wizard

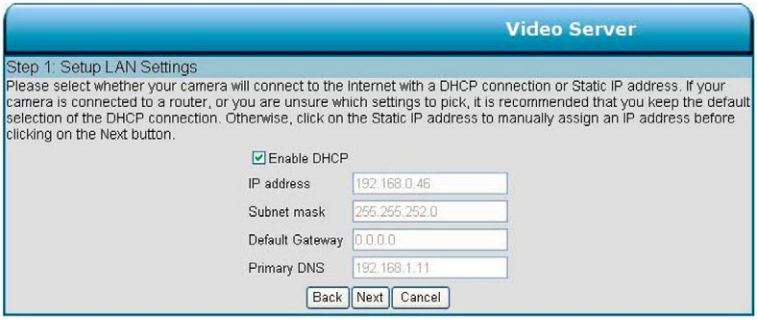
To quickly configure your Video Server, click **Wizard** on the top of the Setup pages.

This wizard will guide you through a step-by-step process to configure your new Video Server and connect the Video Server to the Internet.

Video Server
Welcome to setup wizard - internet connection setup
This wizard will guide you through a step-by-step process to configure your new Camera and connect the camera to the internet. To set-up your camera motion detection settings, please click the Back button to close this wizard and re-open the motion detection setup wizard.
Step 1: Setup LAN Settings
Step 2: Setup Internet Settings
Step 3: Setup DDNS Settings
Step 4: Camera Name Settings
Step 5: Setup Time Zone
Back
Next
Cancel

Click **Next** to continue.

Step 1:


Video Server
Step 1: Setup LAN Settings
Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, it is recommended that you keep the default selection of the DHCP connection. Otherwise, click on the Static IP address to manually assign an IP address before clicking on the Next button.
Enable DHCP
IP address
192.168.0.46
Subnet mask
255.255.252.0
Default Gateway
0.0.0.0
Primary DNS
192.168.1.11
Back
Next
Cancel

The Video Server default setting is DHCP **On**. Use the DHCP protocol if the DHCP server is working in the LAN. The Video Server will obtain an IP address automatically from the DHCP server. Or you can turn the DHCP **Off** to build the Video Server working environment with a static IP address. The default static IP is **192.168.1.168**. You can set an IP address for the Video Server if the LAN unit isn't connected to a DHCP server.

If your Internet Service Provider has provided you with connection settings, or you wish to set a static address within your home network, enter the accurate information for your static IP setting.

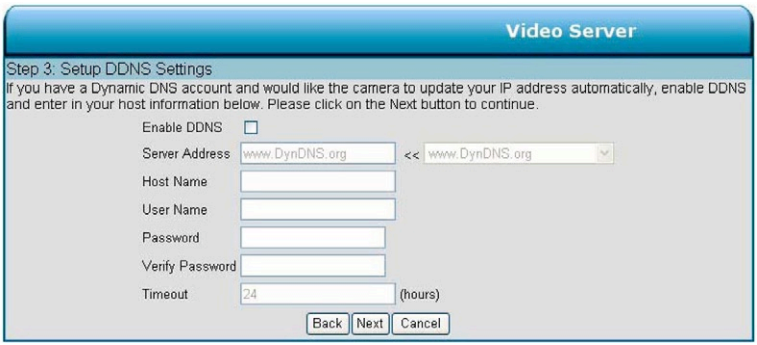
Click **Next** to continue.

Step 2:

Video Server
Step 2: Setup Internet Settings
Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button. Please contact your ISP if you do not know your Username and Password.
Enable PPPoE
User Name
(e.g. 654321@hinet.net)
Password
Back
Next
Cancel

If you are using PPPoE, select Enable and enter your user name and password, otherwise select Disable and click **Next** to continue.

Step 3:



If you have a Dynamic DNS account and would like the Video Server to update your IP address automatically, select **Enable** and enter your host information.

Click **Next** to continue.

Step 4:

Video Server
Step 4: Camera Name Settings
It is recommended that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before clicking on the Next button.
IP Camera Name
Video Server
Back
Next
Cancel

Enter a name for your Video Server and click **Next** to continue.

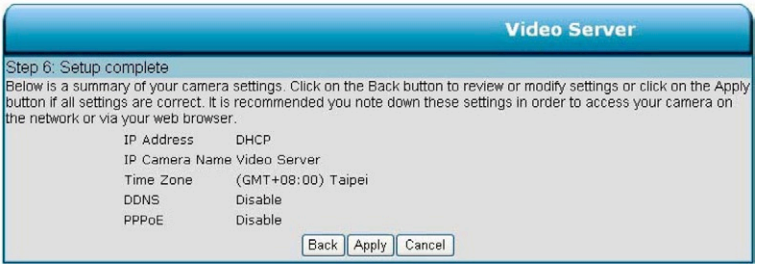
Step 5:

Video Server
Step 5: Setup Time Zone
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.
Time Zone
(GMT+08:00) Taipei
Enable Daylight Saving
Back
Next
Cancel

Configure the correct time to ensure that all events will be triggered, captured and scheduled at the right time.

Click **Next** to continue.

Step 6:


Video Server
Step 6: Setup complete
Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended you note down these settings in order to access your camera on the network or via your web browser.
IP Address DHCP
IP Camera Name Video Server
Time Zone (GMT+08:00) Taipei
DDNS Disable
PPPoE Disable
Back
Apply
Cancel

If you have selected **DHCP**, you will see a summary of your Video Server's settings. Please note down all this information as you will need it for accessing your Video Server within the network.

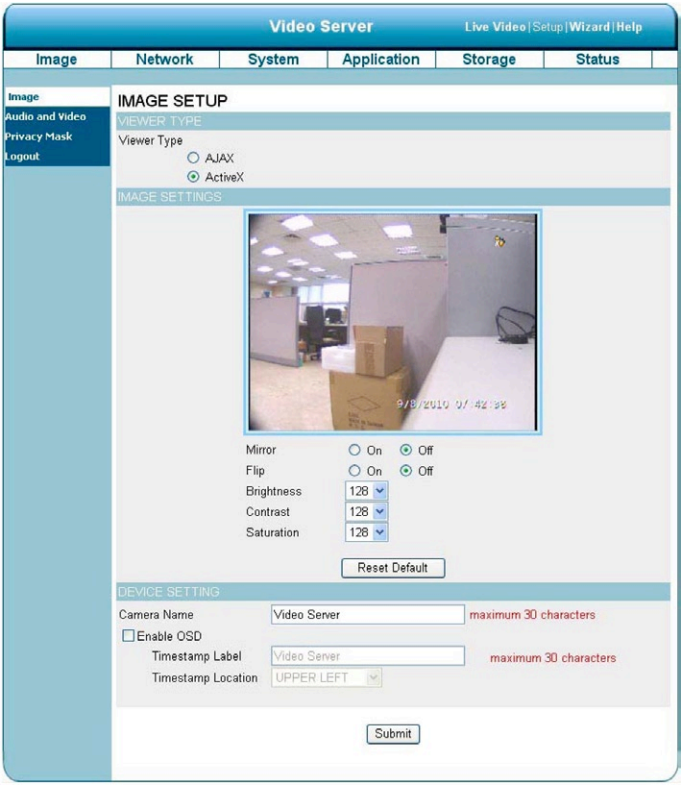
Click **Apply** to save your settings.

6.1.3.2 Change Video Setting

Please follow the steps below to change the video setting through the network as necessary. A preview of the image will be shown in the window of Live Video. Click **Submit** to activate and save your changes.

- **The Image Setup setting page**

1. Click on the **Image** button to enter the image-setting page.



2. Adjust the „Viewer Type". Click to choose the viewer type of the „AJAX" or „ActiveX" mode.
3. Adjust the „Image Settings", including „Mirror", „Flip", „Brightness", „Contrast" and „Saturation" as necessary.
4. Adjust the "Device Settings" including „Video Server Name" and „Timestamp".
   - Click „**Enable OSD**" to checkmark the box and activate the function.
   - Enter the „Timestamp Color„ you have chosen.
   - Enter the „Timestamp Location„ you have chosen.
   - Enter the „Timestamp Format„ you have chosen.
5. Click on the **Submit** button to submit the new image setting.

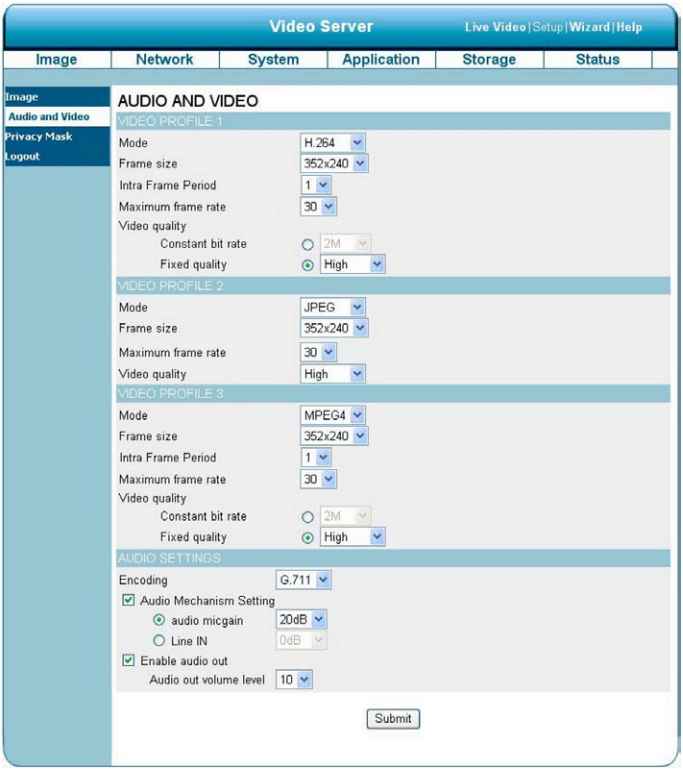
Description of function keys:

Mirror	The mirror stores the images reflected by it so it can be used for surveillance or to simply take your own picture.
Flip	To flip the image 180 degrees.
Brightness	An adjustable setting to compensate for backlight scenes
Contrast	The measurement for colour intensity/strength.
Saturation	This setting controls the strength of colours from black and white to bold colours.
Timestamp Location	Click to open the list of four location modes to choose from: „UPPER LEFT", „UPPER RIGHT", „BOTTOM LEFT", and „BOTTOM RIGHT".
Timestamp Format	Click to open the list of six format modes to choose from: „YYYY/MM/DD", „MM/DD/YYYY", „DD/MM/YYYY", „YYYY/MM/DD TITLE", „MM/DD/YYYY TITLE", „DD/MM/YY TITLE", „TITLE YYYY/MM/DD", „TITLE MM/DD/YYYY" and „TITLE DD/MM/YY".
Submit	Click to set.

- **The Audio and Video setting page**

1. Click on the **Audio and Video** button to enter the Audio and video page to set the details of the device. You may configure video profiles with different settings for your Video Server. Hence, you may setup different profiles for your computer and mobile displays. In addition, you may also configure your audio setup for your Video Server.

   Click **Submit** to activate and save your changes.



2. Set the „Mode", „Frame size", „Maximum frame rate" and „Video quality" of the Video Profiles as necessary.
3. Set the details of the audio functions.
4. Click on the **Submit** button to submit the new setting.

Description of function keys:

Mode	Choose the video format from „JPEG", „MPEG4" or "H.264". It can JPEG, MPEG4 or H.264. In JPEG mode, the video frames are independent. However, MPEG4 / H.264 consumes much less network bandwidth than JPEG.
Frame size	This option allows the user to choose the video resolution of the Video Server between „720x576", „352x288" and „176x144".
Maximum frame rate	Click on the drop-down list to choose the frame rates of „30FPS" (PAL: „25FPS"), „15FPS" and „7FPS", „4FPS" and „1FPS".
Video quality	Selects the image quality level of JPEG images captured from Highest, High, Medium, Low and Lowest. Selects the image quality level of MPEG4 or H.264 images captured from „Constant bit" (4M, 2M, 1M, 512K, 256K, 200K, 128K and 64K) or „Fixed Quality" (Highest, High, Medium, Low and Lowest).
Intra Frame Period	In the H.264 or MPEG4 mode, if there is little motion and most of the video content does not change from frame to frame, the H.264/MPEG4 encoding can compress the video by the intra-frame method to keep the quality from loss. You can set the desired time period to use intra-frame compression.
Audio Settings	You can use the option to switch the external microphone on/off or adjust the volume.
Encoding	Click on the drop-down list to choose the audio encoding of „G.711" and „G.726". G.726 offers quality nearly identical to G.711, but it uses only half the bandwidth.
Enable audio out	Check to activate this function. Then set the Audio out volume level.

- **The Privacy Mask setting page**

Click on the **Privacy Mask** button to enter the Privacy Mask Area setting page. Mask 3 privacy area(s) on video to specify up to the area(s) on the Video Server's image to be blocked/excluded from recordings and snapshots.

Video Server
Live Video | Setup | Wizard | Help
Image
Network
System
Application
Storage
Status
Image
Audio and Video
Privacy Mask
Logout
PRIVACY MASK AREA OF VIDEO SETTING
PRIVACY MASK AREA OF VIDEO SETTING
Privacy mask:mask 3 privacy area(s) on video.
Click the right mouse button on the video control to show the popmenu.
Press the left mouse button , drag and drop to set the privacy area.
Privacy area can be enabled or disabled.
After you finish all privacy mask settings, click the Save button.
Submit

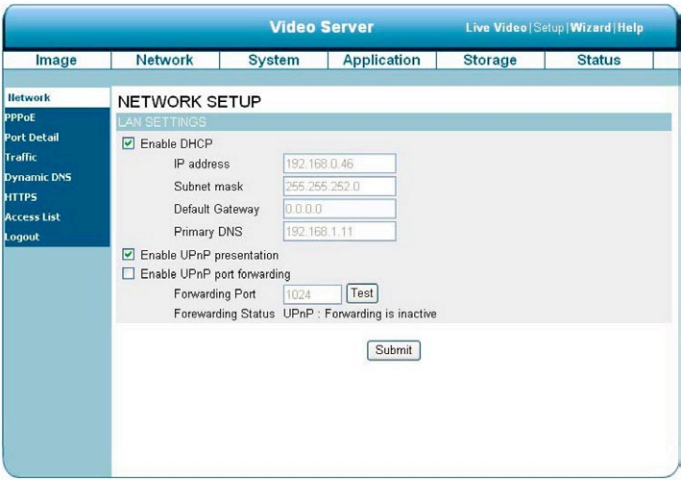
1. Click the right mouse button on the video control to show the pop-menu.
2. Press the left mouse button, drag and drop to set the privacy area.
3. Privacy area can be enabled or disabled.
4. After you finish all privacy mask settings, click the Submit button.

6.1.3.3 Change the Network Settings

Please follow the steps below to change the network settings through the network as necessary.

- **Set the network options and IP address.**

1. Click on the **Network** button in the home page to enter the Network Setup page.



2. The accessible networks here are the „PPPoE", „Port Detail", „Traffic", „Dynamic DNS", „HTTPS" and "Access List".
3. Set the details of the „LAN Settings" for your local area network as necessary.
4. Click on the **Submit** button to submit the new network setting.

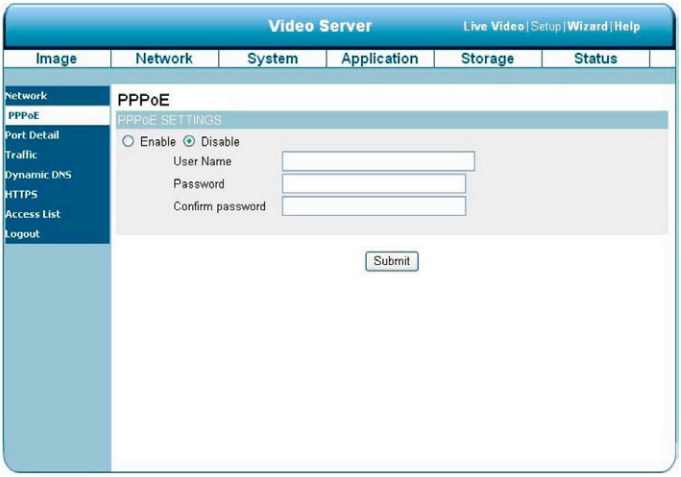
Description of function keys:

DHCP	If you have a DHCP server running on your network and would like a dynamic IP address to be updated to your Video Server automatically.
DNS	The Domain Name System is an Internet service that translates domain names into IP addresses (e.g., 192.168.0.20). The address can be obtained from your ISP or network gateway.
Enable UPnP Presentation	Enable this setting to allow your Video Server to be configured as an UPnP device in your network.
Enable UPnP port forwarding	Enable this setting to allow the Video Server to add port forwarding entries into the router automatically on a UPnP capable network.

• Change the Network Settings – PPPoE

The „Network" page has, on its upper left, the „PPPoE" icon.
Please follow the steps below to change the PPPoE settings through the network as necessary.

1. Click on the **PPPoE** button on the upper left menu to enter the „PPPoE Settings" page.



2. Activate the „Enable" or „Disable" status of the PPPoE Settings function. Click your choices to enable.
3. Enter the PPPoE „Username" and the PPPoE „Password", then confirm the password again.
4. Click on the **Submit** button to submit the new setting.

   NOTE: Please refer to section 6.1.3.8 (PPPoE & DDNS) for more details.

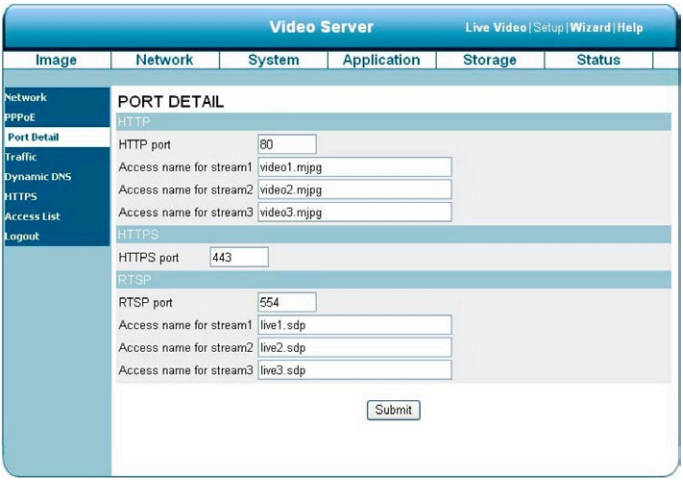
Description of function keys:

PPPoE Setting	If you use the Video Server to connect directly to the Internet, you will need to enter the username and password, which were given to you when you set up your account with your Internet Service Provider. If the Video Server is behind a router or a gateway, you do not need to configure this setting.
Username	Enter in the given space.
Password	Enter in the required space.

- **Change the Network Settings – Port Detail**

The „Network" page has, on its upper left, the „Port Detail" icon. It allows you to specify and reserve the ports for both the HTTP and RSTP streaming.
Please follow the steps below to change the Port Detail setting through the network as necessary.

1. Click on the **Port Detail** button on the upper left menu to enter the „Port Detail" page.



2. Enter the „HTTP port" and the „Access name for stream" for the MJPEG streams of the HTTP.
3. Enter the „HTTP port". The default value is 443.
4. Enter the „RSTP port" and the „Access name for stream" for the MJPEG or JPEG streams of the RSTP.
5. Click on the **Submit** button to submit the new setting.

NOTE: If you want to use an RTSP player to access the Video Server, you have to use the following RTSP URL command to request transmission of the streaming data.

Description of function keys:

HTTP Port	HTTP ports allow you to connect to the Video Server via a standard web browser. This port can be set to a number other than the default HTTP port 80. A corresponding port must be opened on the router. For example, if the port is changed to 8080, users must type in the web browser ‚http://192.168.0.100:8080' instead of ‚http://192.168.0.100'.
HTTPS Port	HTTPS Port in a Video Server connects it with a PC via a secure web browser.
RTSP Port	The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the IP address of your Video Server.

NOTE: Using a RSTP player to view the video streams To view the MPEG4 streaming media by using RTSP players, you can use the players that support RTSP streaming, such as Quick Time Player, Real Player, and so on.

(1) Launch the RTSP player.

(2) Choose „File", and an „Open URL" dialog box will pop up.

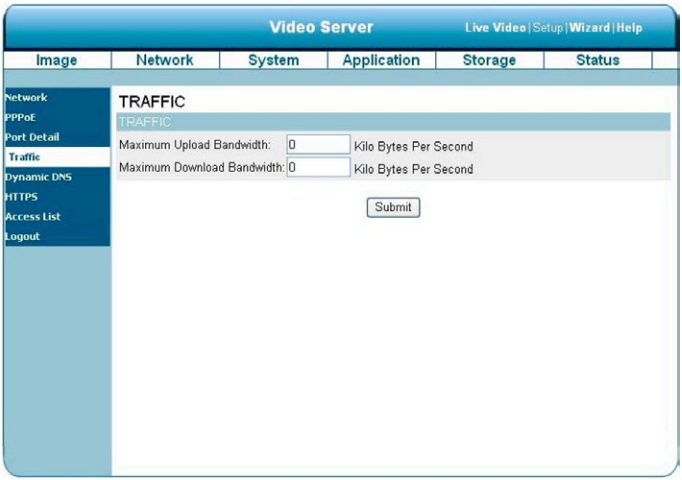
(3) Enter an Internet URL to open. The address format is rtsp://<ip address>:<rtsp port>/<RTSP streaming access name for stream1, stream2 or stream3>

(4) The live video will be displayed in your player.

• Change the Network Settings – Network Traffic

The „Network" page has, on its upper left, the „Traffic" icon. Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network.
Please follow the steps below to change the setting through the network as necessary.

1. Click on the **Traffic** button on the upper left menu to enter the „Traffic" page.



2. Enter the „Maximum Upload Bandwidth” and the „Maximum Download Bandwidth”.
3. Click on the **Submit** button to submit the new setting.

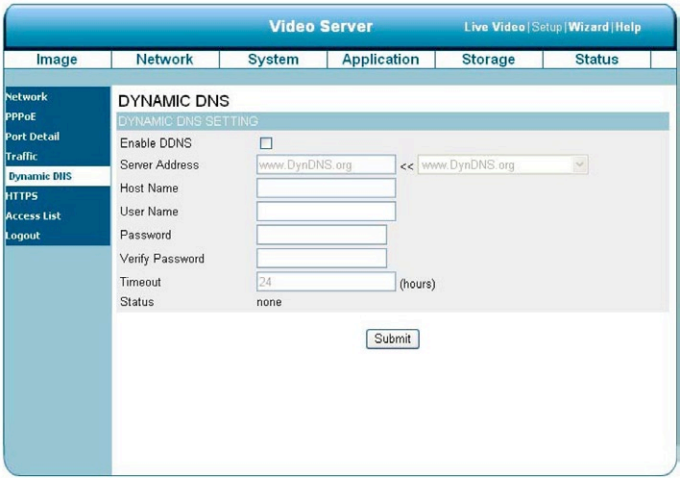
Description of function keys:

Maximum Upload Bandwidth	Enter in the given space from a range of 0 to 102400.
Maximum Download Bandwidth	Enter in the required space from a range of 0 to 102400.
Submit	Click to set.

• Change the Network Settings – DDNS

The DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. The user name and password are required when using the DDNS service. The „Network” page has, on its upper left, the „DDNS” icon. Please follow the steps below to change the DDNS setting through the network as necessary.

1. Click on the **Dynamic DNS** button on the upper left menu to enter the „Dynamic DNS” page.



2. Click „Enable DDNS” to checkmark the box and activate the function.
3. Fill in your dynamic „Server Address”, „Host Name”, „User Name”, „Password”, „Verify Password”, „Timeout”, „IP Address” and „Email Address”.
4. Click on the **Submit** button to submit the new setting.

NOTE: Please refer to section 6.1.3.8 (PPPoE & DDNS) for more details.

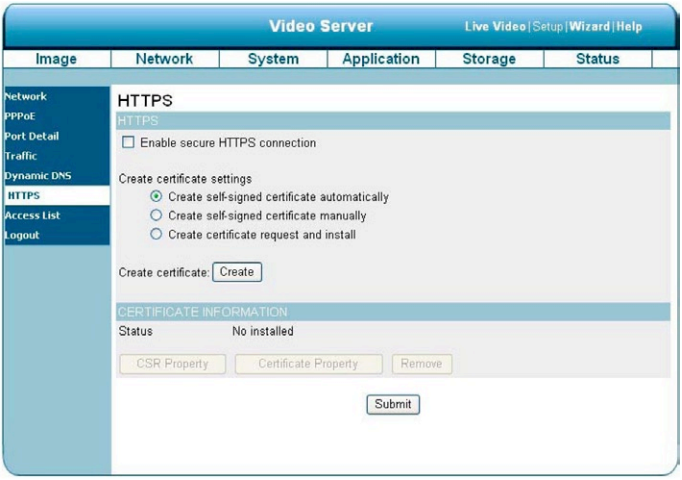
Description of function keys:

Enable DDNS Function	Checkmark to activate the function
DNS	The Domain Name System is an Internet service that translates domain names into IP addresses (e.g. 192.168.0.20). The address can be obtained from your ISP or network gateway.
Server Address:	Select your Dynamic DNS provider from the pull down menu or enter the server address manually.
Host Name	Enter the host name of the DDNS server.
User name	Enter your user name or e-mail used to connect to the DDNS.
Password	Enter your password used to connect to the DDNS server.
Verify Password	Enter your password again to connect to the DDNS server.
Timeout	Enter the DNS Timeout values for registering the IP address.
Status	Indicate the connection status, automatically determined by the system.

- **Change the Network Settings – HTTPS**

The „Network" page has, on its upper left, the „HTTPS" icon. Please follow the steps below to change the HTTPS setting through the network as necessary.

1. Click on the **HTTPS** button on the upper left menu to enter the „HTTPS Setting" page.



2. Mark the „Enable HTTPS secure connection" to activate the function.
3. Click to select the „Create certificate method" from „Create self-signed certificate automatically", „Create self-signed certificate manually" and „Create certificate request and install".
4. Click „Create" to save the create certificate settings.

5. The Certification Information will show below.
6. Click „CSR Property" to see the Certificate Signing Request information.
7. Click „Certificate Property" to see the Certificate information.
8. Click „Remove" to remove the created certificate.
9. Click on the **Submit** button to submit the new setting.

NOTE: The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate you must first uncheck Enable HTTPS secure connection.

Methods of creating and installing the certificate:

1. Create self-signed certificate automatically

Before using HTTPS for communication with the IP Video Server, a Create self-signed certificate automatically:

(1) Enable HTTPS secure connection.

(2) Select the „Create self-signed certificate automatically" option.

(3) Click the Create button.

(4) The new Certification Information will show in the third column on the HTTPS setting page.

(5) Click Home to return to the main page. Change the address from „http://" to „https://„ in the address bar and press Enter on your keyboard. Some Security Alert dialogs will pop up. Click OK or Yes to enable HTTPS.

2. Create self-signed certificate manually

(1) Enable HTTPS secure connection.

(2) Click „Create self-signed certificate manually" to open the Create certificate column.

(3) Click the Create button.

(4) The new Certification Information will show in the third column on the HTTPS setting page.

3. Create certificate request and install

(1) Enable HTTPS secure connection.

(2) Click „Create self-signed certificate automatically" to open the Create certificate column.

(3) Click the Create button.

(4) If you see an Information bar, click OK and click on the Information bar at the top of the page to allow pop-ups.

(5) The pop-up windows will show a certificate request.

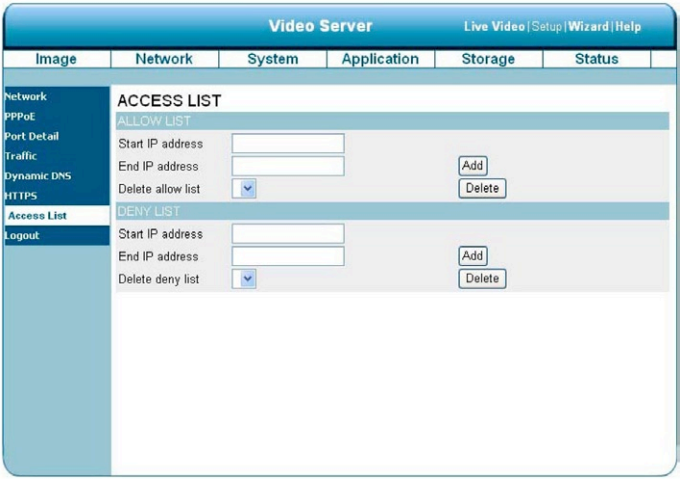
(6) Look for a trusted certificate authority that issues digital certificates. Enroll the Video Server. Wait for the certificate authority to issue a SSL certificate; click „Browse..." to search for the issued certificate, then click „Upload" on the Create certificate column.

(7) The new Certification Information will show in the third column on the HTTPS setting page.

- **Change the Network Settings – Access List**

The „Network" page has, on its upper left, the „Access List" icon. Please follow the steps below to change the Access List setting through the network as necessary.

1. Click on the **Access List** button on the upper left menu to enter the „Access List" page.



2. Fill in the „Start IP address", „End IP address" and „Delete allow list" details of the „Allow List". Press the „Add" button to add or press „Delete" to erase it.
3. Fill in the „Start IP address", „End IP address" and „Delete deny list" details of the „Deny List". Press the „Add" button to add or press „Delete" to erase it.
4. Click on the **Submit** button to submit the new setting.

Description of function keys:

Allow List	
Start IP Address	The starting IP Address of the devices (such as a computer) which have permission to access the video of the Video Server.
End IP Address	The ending IP Address of the devices (such as a computer) which have permission to access the video of the Video Server.
Delete Allow List	Remove the customized setting from the Permission List.
Deny List	
Start IP Address	The starting IP Address of the devices (such as a computer) which don't have permission to access the video of the Video Server.
End IP Address	The ending IP Address of the devices (such as a computer) which don't have permission to access the video of the Video Server.
Delete Deny List	Remove the customized setting from the Permission List.

NOTE: If there are any conflicts between the range of the Allow List and the range of the Deny List, the Access List within the range of the Deny List has the higher priority over the range of the Allow List.

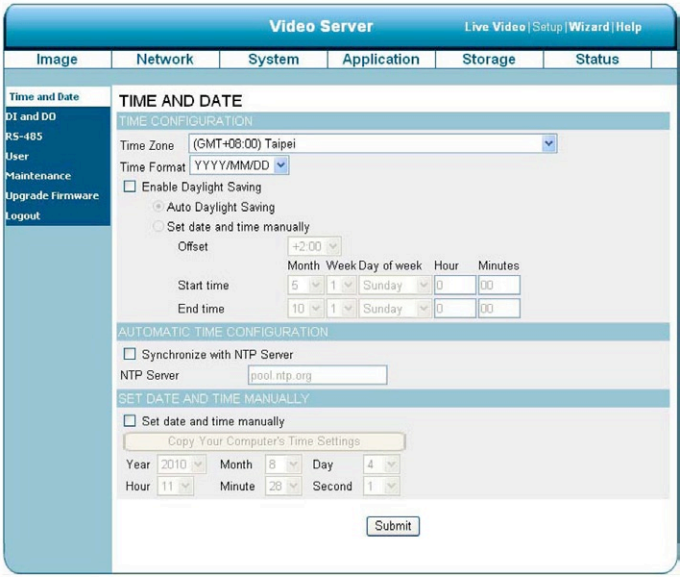
For example, the range of the Allow List is set from 1.1.1.0 to 192.255.255.255 and the range of the Deny List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the Video Server.

6.1.3.4 Change the System Settings

Please follow the steps below to change the date and time of the system settings through the network as necessary.

- **Set the Time and Date of the system**

1. Click on the **System** button to enter the „Time And Date" page (default). From this section, you may automatically or manually configure, update and maintain the internal system clock for your Video Server.



2. To set the Time Configuration, please select your time zone from the drop-down menu. Select this to enable the daylight saving time. Then Select "Auto Daylight Saving" or „Set date and time manually".
3. To set the Automatic Time Configuration, please checkmark „Synchronize with NTP Server" and enter the address of the NTP Server.
4. To set the Date and Time Manually, please checkmark „Set date and time manually".
   Press „Copy Your Computer's Time Settings" as necessary to synchronize the time information from your PC, or just manually set the date and time from the drop-down lists.
5. Click on the **Submit** button to submit the new Date and Time settings.

Description of function keys:

Time Zone	Select your time zone from the drop-down menu.
Enable Daylight Saving	Select this to enable the daylight saving time.
Auto Daylight Saving	Select this option so that your Video Server will configure the Daylight Saving setting automatically.
Set date and time manually	Select this option so that you may configure the Daylight Saving date and time manually.
Offset	Sets the amount of time to be added or removed when Daylight Saving is enabled.
Synchronize with NTP server	Enable this feature to obtain time configuration automatically from the NTP server.
NTP Server	The Network Time Protocol (NTP) synchronizes the device with an Internet time server. Choose the one that is closest to your location.
Set the date and time manually	This option allows you to set the time and date manually.
Copy Your Computer's Time Settings	This will synchronize the time information from your PC.

• Change the System Setting – Digital Input & Output

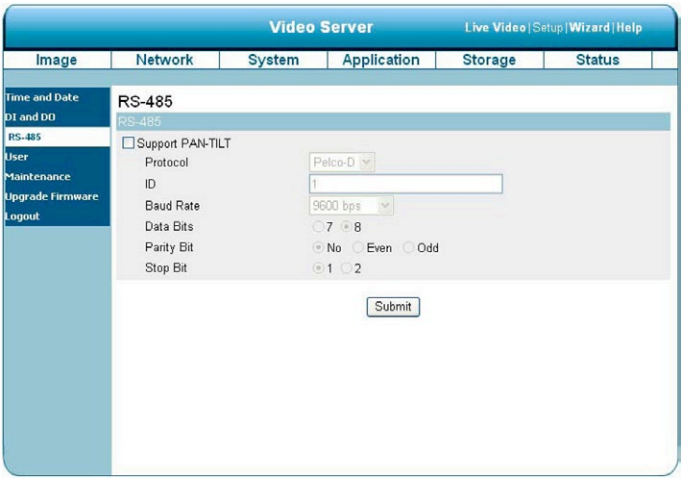
You may enable the **Digital Input** (D/I) and **Digital Output** (D/O) feature, and configure the source of events for your Video Server.

1. Click on the **DI and DO** button on the left side of the „System" page to enter the „DI and DO" page.

2. Select the active state of the Digital Input 1 from the drop-down list.
3. Select the active state of the Digital Input 2 from the drop-down list.
4. Select the active state of the Digital Output from the drop-down list.
5. Click to set the LED “On” or “Off’. Set to turn on/off the LED lights of the Video Server.
6. Click on the **Submit** button to submit the new user’s setting.

• Change the System Setting – RS485 Setting

You may configure the **RS-485** settings or communication specifications (baud rate, data bit, stop bit, and parity bit) for your Video Server. The RS-485 is a serial communication method for computers and other devices. For your Video Server, the RS-485 is used to control a PAN/TILT device, such as an external Video Server enclosure, to perform the PAN and TILT movement. Click on the **RS485 Setting** button on the left side of the „System” page to enter the „RS485 Setting” page.



NOTE: Checkmark „Support PAN-TILT”, and a RS-485 control panel will appear on the left side of the Live View page.

Description of function keys:

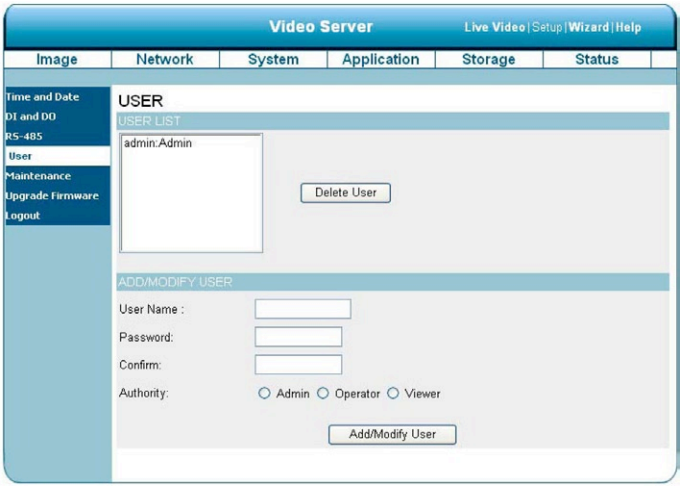
Support PAN-TILT	When enabling Support PAN-TILT, a control panel will be displayed on the Live Video page allowing control of an external Video Server enclosure through the RS-485.
Protocol	Select one protocol type from the pull-down menu.
ID	Choose an ID number between **1** and **255**. This ID is the identifier for each RS-485 device.
Baud Rate	Choose between **2400** and **115200** bps. This is a speed measurement for communication between a transmitter and receiver, indicating the number of bit transfers per second. A higher baud rate will reduce the distance of the two devices (transmitter and receiver).

Data Bits	Either **7** or **8**. It is a measurement of the actual data bits in a transmission. In default, the value is **8**.
Parity Bit	Choose from **No**, **Even**, and **Odd**. This is a simple form of error checking used in serial communication and you may use no parity. For even and odd parities, the serial port sets the parity bit (the last bit after the data bits) to a certain value to ensure that the transmission has an even or odd number of logic-high bits. For example, if the data is 011, for even parity, the parity bit is 0 to keep the number of logic-high bits even. If the parity is odd, the parity bit is 1, resulting in 3 logic-high bits.
Stop Bit	Either **1** or **2**. It is used to signal the end of communication for a single packet. The more bits used for stop bits, the greater the lenience in synchronizing the different clocks but the slower the data transmission rate. In default mode, the value is **1**.

- **Change the System Setting – Users**

You may modify the name and administrator's password of your Video Server, as well as add and manage the user accounts for accessing the Video Server. You may also use this section to create the unique name and configure the OSD setting for your Video Server. Please follow the steps below to change/add the users' authority through the network as necessary.

1. Click on the **Users** button on the left side of the „System" page to enter the „Users" page.



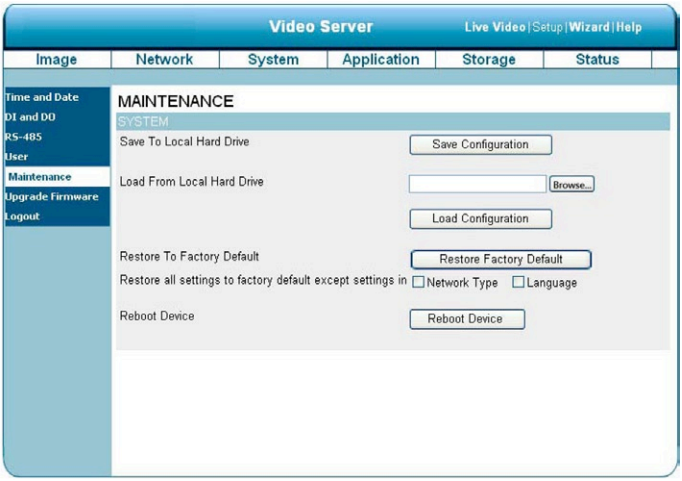
2. Add, modify or delete any user's data if necessary.
3. Click the **Submit** button to submit the new user's settings.
4. Click the **Home** button to return to the home page.

Description of function keys:

User List	The list shows the registered user(s) and the corresponding authority.
Delete	Deletes a selected user
Name	Enter the user's name, which will be added or modified.
Password	Enter the new password of the user's name above.
Confirm	Type in the password again for verification.
Authority	Choose an authority option of the user's name from: Admin, Operator, and Viewer.
Add/Modify User	Click to submit the new setting to the Video Server.

- **Change the System Setting – Maintenance**

Please follow the steps below to change the system setting through the network as necessary.
Click on the **Maintenance** button on the left side of the „Date and Time" page to enter the „Maintenance" page.



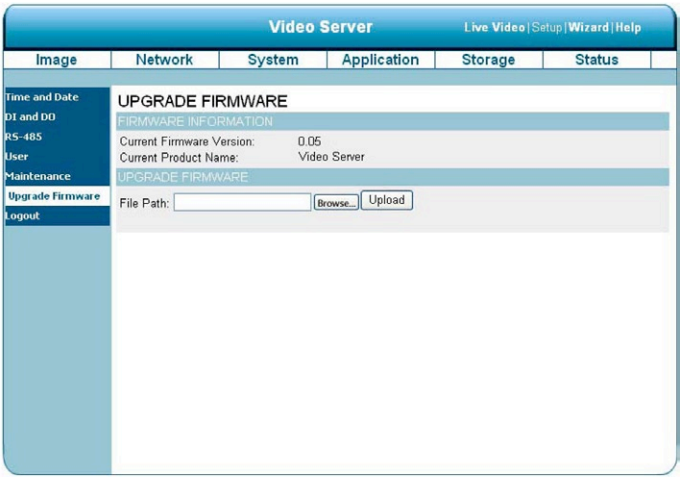
Description of function keys:

Save Configuration	Click on „Save Configuration" to save the configuration files to the local hard drive.
Load Configuration	Browse and click on the „Load Configuration" to load the configuration files to the local hard drive.
Restore Factory Defaults	Click on „Restore Factory Defaults" to restore the factory defaults. You may browse and load the configuration file. This option will restore the pre-configured or saved settings. The user can select to restore the Network Type or the Language.
Reboot Device	Click on „Reboot Device" to reboot the device. This option will restart the Video Server.

- **Change the System Setting – Update Firmware**

Please follow the steps below to update the firmware through the network as necessary.

1. Click on the **Firmware Upgrade** button on the left side of the „Date and Time" page to enter the „Upgrade Firmware" page.



2. Click on the **„Browse…"** button to select the UPDATE.BIN file which was copied into your computer.
3. Click on the **„Upload"** button.

NOTE: DO NOT power off the Video Server while updating the firmware.

NOTE: Don't interrupt the process while the unit is updating itself.

NOTE: Please make sure that the UPDATE.BIN file is appropriate to the model of the unit.

Updating with the wrong UPDATE.BIN file may cause physical damage to the device.

NOTE: The Temporary Internet Files (or cache) folder contains Web page content that is stored in your hard disk for quick viewing. We suggest deleting the Temporary Internet Files immediately after updating the firmware. To delete the files in the Temporary Internet Files folder, follow these steps:

1. Quit the Internet Explorer and quit any instances of the Windows Explorer.
2. Click **Start**, click **Control Panel**, and then double-click **Internet Options**.
3. On the **General** tab, click **Delete Files** under **Temporary Internet Files**.
4. Select the **Delete all offline content** check box in the **Delete Files** dialog box, and then click **OK**.
5. Click **OK**.

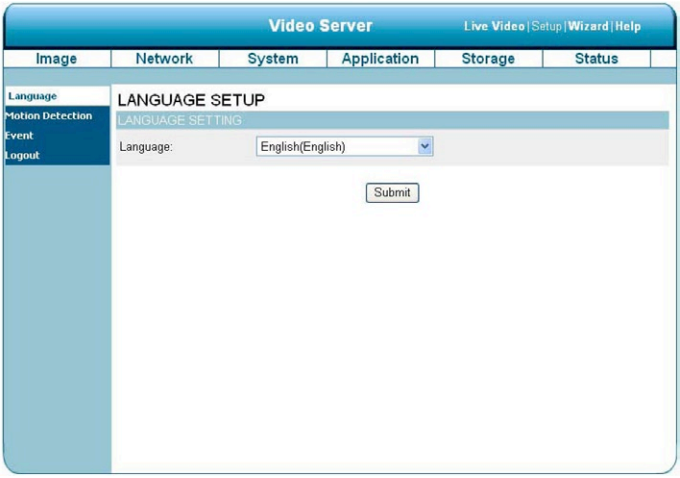
6.1.3.5 Change the Application Setting

Please follow the steps below to change the application setting through the network as necessary.

- **Change the Application Setting – Language Setting**

Please follow the steps below to change the Language setting via the network as necessary.

1. Click on the **Language** button on the left side to enter the „Language Setting" page.



You have an option as to which language to use.

2. Choose your selected language and click „Submit" to set it.

- **Change the Application Setting – Motion Detection**

Please follow the steps below to enable changes in the motion detection function of the alarm through the network as necessary.

Set the motion detection:

1. Click on the **Motion Detection** button on the left side of the Alarm to enter the „Motion Detection" page.

2. Click and drag the mouse across a targeted zone to draw a red rectangle on the image (coordinates provided below).

   NOTE: You can set more than one targeted zone depending on your requirement.

3. Enables / disables the motion detection function.
4. Set up the signal level.
5. Click on the **Submit** button to submit the new setting of the recording.

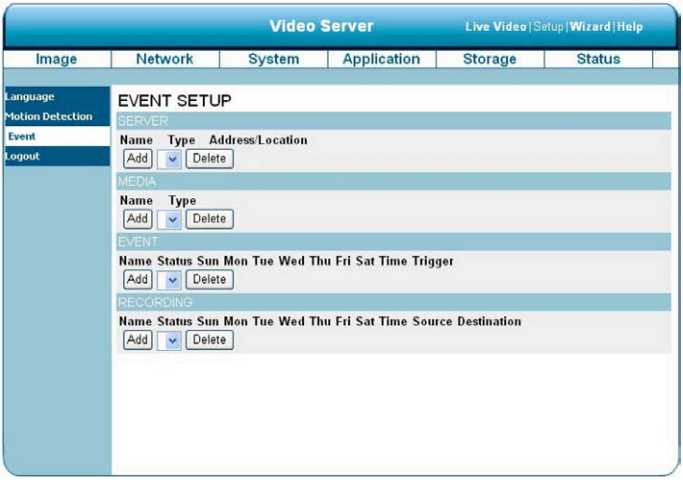
Description of function keys:

Sensitivity	The sensitivity bar allows you to specify how much movement is required to trigger the motion detection.
Percentage	Adjusting the percentage allows you to set a requirement on how much of the motion window must be filled by movement. For example: If you set this to 50%, then the selected window must be half filled by a moving object before it triggers motion detection.

- **Change the Application Setting – Event**

In this section, you can configure and schedule the recording setting for your Video Server.

Click on „Add" to enter the setting pages of the Server, Media, Event and Recording to make the advanced settings. Or, click on „Delete" to erase the settings.



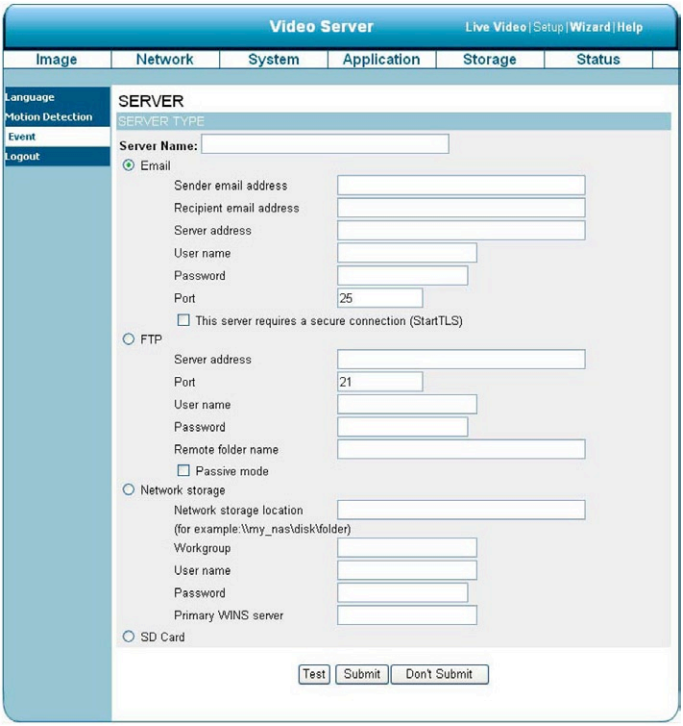
The Event Setup page includes 4 different sections: Server, Media, Event and Recording.

1. To add a new item - „event, server or media", click Add.
2. To delete the selected item from the pull-down menu of event, server or media, click Delete.
3. Click on the item name to enter the window for modifying.

NOTE: You can add up to five servers, five media fields, three event schedules, and two recording schedules.

Server:

Click on the **Add** button in the Server column to enter the „Server" setting page.



1. Enter the Server name, the unique name for a server. Four kinds of servers supported.
   They are the email server, FTP server, HTTP server and network storage.
2. Set the details of the Email. **„Sender email address"**: The email address of the sender.
   „Recipient email address": The email address of the recipient.
3. Set the details of the FTP. **„Remote folder name"**: An authorized folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept a preceding slash symbol before the path without virtual path mapping. Refer to the instructions for the external FTP server for details. The folder privilege must be open for uploading. **„Passive Mode"**: Check it to enable the passive mode in transmission.
4. Set the details of the Network storage. Only one network storage is supported. **„Network storage location"**: The path to upload the media. **„Workgroup"**: The workgroup for network storage.
5. Click on the SD card to activate the function. Use the SD card to record media.
6. Click on „Submit" to save or click on „Don't Submit" to go back to the Event main page.

Server settings:

(1) Click **Add** under the Sever column on Event Settings page to open the Server setting page. On this page, you can specify where the notification has been sent when a trigger is activated. A total of 5 server settings can be configured.

NOTE: The maximum server settings amount is five, however, you can set the Network storage or the SD card for only one.

(2) Enter the Server Name for the server setting.

(3) Select the Server Type. There are four choices of server types available: Email, FTP, Network storage and SD card. Select one of the server types.

Email: Select to send the media files via the email when a trigger is activated.

(a) Sender email address: Enter the email address of the sender.

(b) Recipient email address: Enter the email address of the recipient.

(c) Server address: Enter the domain or IP address of the email server.

(d) User name: Enter the user name of the email account if necessary.

(e) Password: Enter the password of the email account if necessary.

(f) Port: The default email server port is 25. You can also manually set another port.

(g) To verify if the email setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR). If successful, you will receive an email indicating the result.

(h) Click Submit to activate the setting.

FTP: Select to send the media files to an FTP server when a trigger is activated.

(a) Server address: Enter the domain or IP address of the FTP server.

(b) Port: The default FTP server port is 21. It can also be assigned to another port number.

(c) User name: Enter the login name of the FTP account.

(d) Password: Enter the password of the FTP account.

(e) Remote folder name: Enter the folder where the media file will be placed. If the folder name does not exit, the Video Server will create one on the FTP server.

(f) Passive mode: Most firewalls do not accept new connections initiated from external requests. If the FTP server supports passive mode, select this option to enable passive mode FTP and allow data transmission to pass through the firewall.

(g) To verify if the FTP setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR).

(h) Click Submit to activate the setting.

Network storage: Select to send the media files to a network storage location when a trigger is activated. Please fill in the information for your server.

(a) Network storage location: Enter the network storage path (\\ server name or IP address\ folder name).

(b) Workgroup: Enter the workgroup name for the network storage server.

(c) User name: Enter the user name for the server.

(d) Password: Enter the password for the server.

(e) Primary WINS server:

(f) To verify if the storage setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR).

(g) Click Submit to activate the setting.

SD card: Select to send the media files to an SD card when a trigger is activated.

(a) Insert your SD card first.

(b) To verify if the storage setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR).

(c) Click Submit to activate the setting.

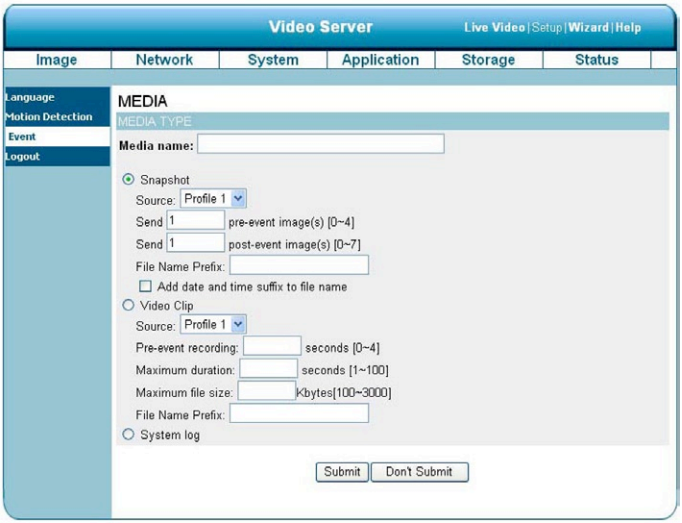
(4) When completed, click Submit to enable the settings to exit this page. The new server settings will appear on the Event Settings page.

NOTE: To remove a server setting from the list (Application> Event>), select a server name from the drop-down list and click Delete.

Note that only when the server setting is not being applied to an event setting (Application > Event > Event > The „Action" option) can it be deleted or the Video Server won't take any action when a trigger is activated.

Media:

Click on the **Add** button in the Media column to enter the „Media" setting page.



1. Enter the Media name, the unique name for media.
   There are three kinds of media: snapshot, video clip and system log.
2. Set the details of the Snapshot.

   „Source": Select the video source.

   „Send Pre-event images": The number of pre-event images.

   „Send Post-event images": The number of post-event images.

   „File name prefix": The prefix name will be added on the file name of the snapshot images.

   „Add date and time suffix to file name": Check it to add timing information as file name suffix.

3. Set the details of the Video Clip.

   „Source„: Select the video source.

   „Pre-event recording„: The interval of pre-event recording in seconds.
   There are two limitations for video clip file.

   „Maximum duration„: The maximum recording file duration in seconds.

   „Maximum file size„: The maximum file size would be generated.

4. Click on the System log to activate the function.
5. Click on „Submit" to save, or click on „Don't Submit" to go back to the Event main page.

Media settings:

(1) Click **Add** under the Media column on Event Settings page to open the Media setting page.
On this page, you can specify the type of media that will be sent when a trigger is activated.
A total of 5 media settings can be configured.

(2) Enter the Media Name for the media setting.

(3) Select the Media Type. There are three choices of media types available: Snapshot, Video Clip and System log.
Select one of the media types.

Snapshot: Select to send snapshots when a trigger is activated.

(a) Source: Select to take snapshots from the video profile.

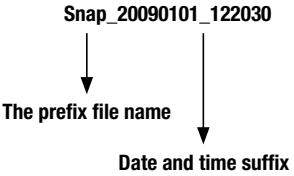
(b) Send pre-event image(s) [0~4]: The Video Server has a buffer area; it temporarily holds data up to a certain limit. Enter a number to decide how many images to capture before a trigger is activated. Up to 4 images can be generated.

(c) Send post-event image(s) [0~7]: Enter a number to decide how many images to capture after a trigger is activated. Up to 7 images can be generated.

NOTE: For example, if both the Send pre-event images and Send post-event images are set to 4, a total of 8 images are generated after a trigger is activated.

(d) File Name Prefix: Enter the text that will be appended to the front of the file name.

For example, the file name will be in this form:



The format is: YYYYMMDD_HHMMSS

(e) Add date and time suffix to file name: Select the option to add the date/ time suffix to the file name.

(f) Click **Submit** to activate the setting.

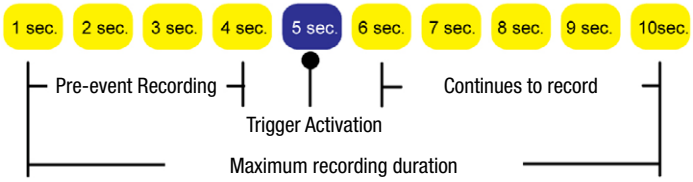
Video Clip: Select to send video clips when a trigger is activated.

(a) Source: Select to record video clips from the video profile.

(b) Pre-event recording: The Video Server has a buffer area; it temporarily holds data up to a certain limit. Enter a number to decide the duration of recording before a trigger is activated. Up to 4 seconds can be set.

(c) Maximum duration: Specify the maximum recording duration in seconds. Up to 100 seconds can be set.

NOTE: For example, if pre-event recording is set to 4 seconds and the maximum duration is set to 10 seconds, the Video Server continues to record for another 5 seconds after a trigger is activated.



(d) Maximum file size: Specify the maximum file size allowed.

(e) File Name Prefix: Enter the text that will be appended to the front of the file name.

(f) Click Submit to activate the setting.

System log: Select to send a system log when a trigger is activated. Click **Submit** to activate the setting.

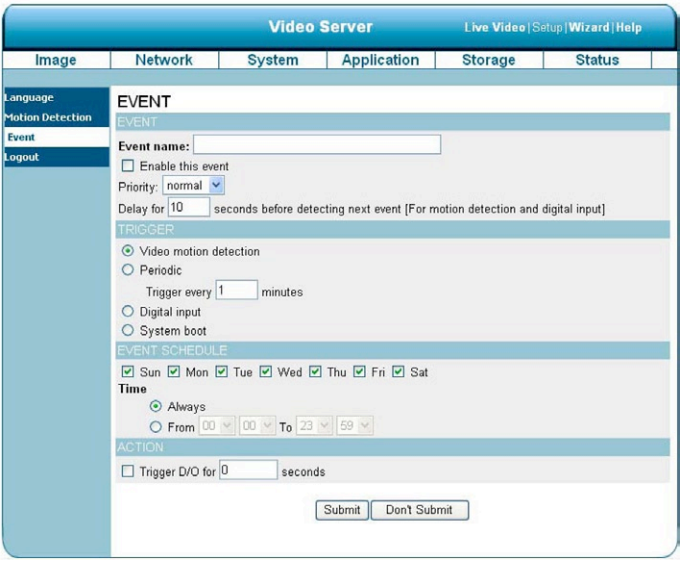
(4) When completed, click **Submit** to enable the settings to exit this page. The new media settings will appear on the Event Settings page.

NOTE: To remove a media setting from the list (Application> Event>), select a media name from the drop-down list and click Delete.

Note that only when the media setting is not being applied to an event setting (Application > Event > Event > The „Attached media" item) can it be deleted or you can't get the images/ logs when a trigger is activated.

Event:

Click on the **Add** button in the Event column to enter the „Event" setting page.



1. Enter the Event name. Checkmark the „Enable this event" box and activate the function. Then set the Priority and the Source from the drop-down list.

   „Priority": The event with higher priority will be executed first.

2. Select the event triggering mode.

   „Video motion detection": Select the windows which need to be monitored.

   „Periodic": The event is triggered in specified intervals. The unit of a triggering interval is a minute.

   „Digital input": The event is triggered when the DI status is changed by an external device.

   „System boot": The event is triggered when the system boots up.

3. Set the recording schedule time.
4. Set the Trigger D/O of activating the action. Check it to trigger digital output for specific seconds when an event is triggered.
5. Click on „Submit" to save or click on „Don't Submit" to go back to the Event main page.

Event settings:

(1) Click **Add** under the Event column on Event Settings page to open the Event setting page.
On this page, you can arrange three parts –Trigger, Event Schedule, and Action to set an event.
A total of 3 event settings can be configured.

(2) Enter the Event Name for the event setting.

(3) Select „Enable this event" option to enable the event setting.

(4) Set the event priority from: „normal", „high" and „highest". Events with a higher priority will be executed first.

(5) Enter the duration in seconds to pause motion detection after a motion is detected (for the trigger types - motion detection and digital input – use only).

(6) An event is an action initiated by a user-defined trigger source; it is the causal arrangement of the following three parts: Trigger, Event Schedule, and Action. Set the event details of each part.

Trigger: This option defines when to trigger the Video Server. The trigger source can be configured to use the Video Server's built-in motion detection mechanism, periodic, external digital input devices or system boot. There are several choices of trigger sources as shown below.

(a) Video motion detection: This option makes use of the built-in motion detection mechanism as a trigger source. To enable this function, you need to configure a motion detection windows first.

NOTE: For example, when the event status is on, once an event is triggered by motion detection, the Video Server will automatically send snapshots, video clips or System log via the server type as your settings.

(b) Periodic: This option allows the Video Server to trigger periodically for every other defined minute(s). Up to 99999 minutes.

(c) Digital input: This option allows the Video Server to use an external digital input device or sensor as a trigger source. Depending on your application, there are many choices of digital input devices on the market which helps to detect changes in temperature, vibration, sound, and light, etc.

(d) System boot: This option triggers the Video Server when the power to the Video Server is disconnected.

Event Schedule: Specify the period for the event.

(a) Select the days of the week.

(b) Set the recording schedule in the 24-hour time format.

Action: Define the actions to be performed by the Video Server when a trigger is activated.

(a) Trigger D/O for ~ seconds: Select this option to turn on the external digital output device when a trigger is activated. Specify the length of the trigger interval in the text box.

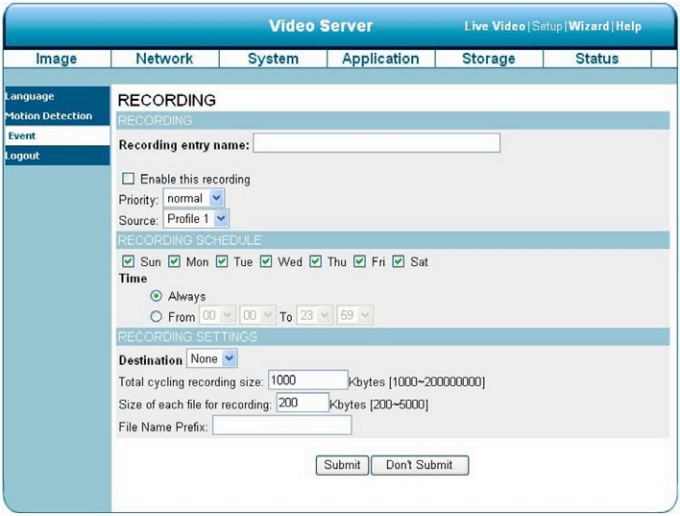
(b) If you want to set an event with recorded video or snapshots, it is necessary to configure the server and media settings first so that the Video Server will know what action to take (such as which server to send the media files to) when a trigger is activated.
Checkmark the one of the Server Names which you have set already, then select the Attached media (the media name) from the drop-down list.

(7) When completed, click Submit to enable the settings to exit this page. The new event settings will appear on the Event Settings page.

NOTE: The new event settings / server settings / media settings will appear in the event drop-down list on the „Application > Event >" page.

Recording:

Click on the **Add** button in the Recording column to enter the „Recording" setting page.



1. Enter the Recording entry name. Checkmark the „Enable this recording" box and activate the function. Enable this option if you want to upload the recording to a shared folder in the network. Then set the Priority and the Source from the drop-down list.
2. Set the recording schedule time. Select the day(s) according to when you want the Video Server to make a video clip.
3. Set the details of the recorded file.

   „Always": This enables the Video Server to make video clips continuously.

   „From": The time range specified for the video clip.
4. Click on „Submit" to save or click on „Don't Submit" to go back to the Event main page.

Record settings:

(1) Click **Add** under the Record column on Event Settings page to open the Record setting page. In this page, you can define the recording source, recording schedule and recording capacity. A total of 2 recording settings can be configured.

(2) Enter the Record entry name for the event setting.

(3) Select „Enable this recording" option to enable the recording setting.

(4) Select the recording priority from: „normal", „high" and „highest". Recording with a higher priority will be executed first.

(5) Select the recording source from the drop-down list (profiles).

(6) Specify the recording schedule and the recording settings.

Recording Schedule:

(a) Select the days of the week.

(b) Set the recording schedule in the 24-hour time format.

Recording Settings:

(a) Destination: You can select the SD card or SAMBA (Network storage) that was set up for the recorded video files.

(b) Total cycling recording size: When the maximum capacity is reached the value you set, the oldest file will be overwritten by the latest one. The reserved amount is reserved for cyclic recording to prevent malfunction.
The limited value is 1000~200000000 Kbytes.

(c) Size of each file for recording: Set the maximum file size of each recording video files.

(d) File Name Prefix: Enter the text that will be appended to the front of the file name.

(7) When completed, click **Submit** to enable the settings to exit this page. The new media settings will appear on the Event Settings page.

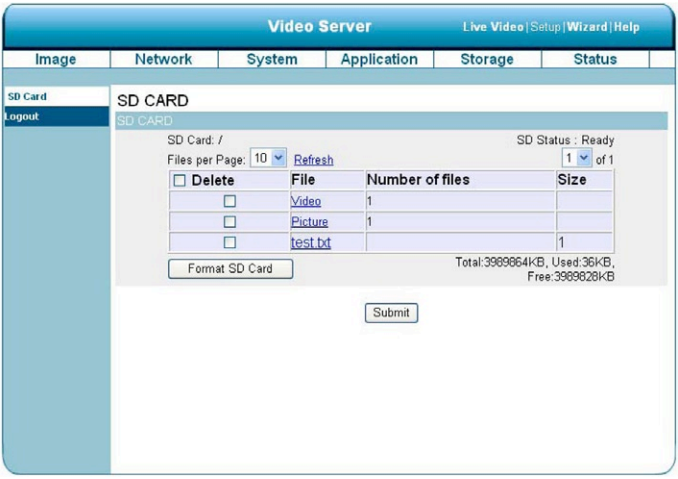
6.1.3.6 Change the SD card Setting

Please follow the steps below to change the SD card setting through the network as necessary.

- **Change the SD Card Setting**

Please follow the steps below to change the setting via the network as necessary.

1. Click on the „Storage" button at the top of the Setup page to enter the „SD Card" screen.



2. The SD Card page contains two image modes, the Video and the Picture.
3. Click „Video" or „ Picture" to enter its sub year-month folder.
4. Click to enter its sub date folder.
5. Click the desired file to display the images therein.
6. Each file can be deleted by checking and by pressing the **OK** button.

6.1.3.7 Device information

- **The Device Information**

This page displays all the information about your device and network connection.
Click on the „Device info" button of the Status page to enter the „Device info" screen.

- **The System Log**

This page displays the log information of your Video Server.

Video Server
Live Video | Setup | Wizard | Help
Image
Network
System
Application
Storage
Status
Device Info
Log
Logout
SYSTEM LOG
CURRENT LOG
1. 2010-08-04 02:40:49 admin LOGIN OK FROM 192.168.2.167
2. 2010-08-04 02:33:01 admin LOGIN OK FROM 192.168.2.167
3. 2010-08-04 02:24:07 admin LOGIN OK FROM 192.168.2.167
4. 2010-08-04 02:15:40 admin LOGIN OK FROM 192.168.2.167
5. 2010-08-04 02:09:24 admin LOGIN OK FROM 192.168.2.167
6. 2010-08-04 01:57:45 admin LOGIN OK FROM 192.168.2.167
7. 2010-08-04 01:49:22 admin LOGIN OK FROM 192.168.2.167
8. 2010-08-04 01:43:48 admin FROM 192.168.2.167 TURN OFF TIME STAMP
9. 2010-08-04 01:43:44 admin FROM 192.168.2.167 SET TIMESTAMP LOCATION UPPER LEFT
10. 2010-08-04 01:43:44 admin FROM 192.168.2.167 TURN ON TIME STAMP
11. 2010-08-04 01:43:44 admin FROM 192.168.2.167 CHANGE CAMERA NAME Video Server
12. 2010-08-04 01:42:53 admin LOGIN OK FROM 192.168.2.167
13. 2010-08-04 01:37:46 admin LOGIN OK FROM 192.168.0.117
14. 2010-08-04 01:37:27 VIDEO RECAPTURE
15. 2010-08-04 01:37:27 VIDEO LOST
16. 2010-08-04 01:37:27 IP CAMERA ACQUIRE DHCP IP 192.168.0.46
17. 2010-08-04 01:37:22 SYSTEM BOOTING
18. 2010-08-04 01:36:54 RESET KEY PRESSED, **REBOOT**
19. 2010-08-04 01:35:39 VIDEO RECAPTURE
20. 2010-08-04 01:34:17 VIDEO LOST
First Page
Previous 20
Next 20
Clear
Download

1. Click on the „Device info” button of the Status page to enter the „Device info” screen.
2. Click on the „Clear” to erase all of the logs. You may also download the information by clicking „Download”.

6.1.3.8 PPPoE & DDNS

Using the PPPoE

1. Install the XDSL software (obtained from your ISP dealer) in your PC.
2. Search your Video Server's IP address: you can connect the Video Server and the Video monitor. The monitor screen will show the IP address on its right side.
3. Turn off the DHCP function (of the Video Server) if it is "ON".
4. Installing an IP address in your PC or notebook.

   Desktop –> Move the mouse focus to the Network neighborhood and click the right key of the mouse –> Choose the properties –> Choose your local connection –> Choose the properties and select the configuration –> Select the TCP / IP –> Choose the properties –> Enter the IP address in a four-part formula, for example „192. 168. 1.101" (the first three parts must be identical to the above numbers, only the last part can be changed to your own number, which must never exceed 255) –> Click on the mask and the mask input, namely „255. 255. 255. 0" (a fixed formula) –> Click „OK" –> Click „OK".
5. Desktop –> Choose IE browser –> Enter the Video Server IP address in the URL (check step # 2 above) –> Enter –> Video Server images will appear.

PPPoE Settings

1. Enter the Video Server home page –> Choose the network –> Enter „User Name: admin" and „Password: 9999" –> Click „OK".
2. Choose PPPoE –> PPPoE mode: Select „ON" –> Enter „Account" –> Enter „Password" –> Submit –> Unplug the power connection.
3. Plug in the Video Server, and it will receive an IP address from the ISP dealer (this IP address is dynamic – every time you unplug and plug in again you'll get a new IP address).

Test: Go to the Internet.

1. Set your PC to enter the Internet.
2. Desktop –> IE browser –> Enter the Video Server IP address (the same address as in the PPPoE settings and step 3 above) –> You can see the Video Server images.

DDNS settings

1. Check your Video Server's IP address (monitor) –> open your IE browser –> Use the address to connect to the Video Server or view the images –> Choose the network –> Enter „User name : admin" and „Password : 9999" –> Click „OK" .
2. Choose the „DDNS" –> Click „Enable DDNS" –> Enter the „DDNS host name", for example „abc123. homeip.net" –> Enter „DDNS Account", for example „abc123" –> Enter the „DNS Password", for example „7777" –> Submit –> The settings are now complete –> Close the IE browser.
3. Open the IE browser again –> Enter the Website address you just applied for, such as „abc123.homeip.net" –> You can look at your Video Server images right away. The procedure is complete.

   Note: These settings are only for your ADSL Dynamic IP configuration. If your configuration is fixed (true IP), you don't need to proceed with the PPPoE and DDNS settings. The DDNS is just for your convenience.

7. Advanced Operation

Question 1:

How to view the live images of the Video Server via the Microsoft Internet Explorer on the Desktop PCs or the laptop computers in a situation where there are no monitors or television ?

- **To get the IP address of the Video Server without a monitor, use one of the following two methods to get the IP address: UPnP and USB function.**

  Upnp: Please refer to **APPENDIX 1**.

  IP function: Please refer to **3.4 The USB function**.

Question 2:

How to activate UPnP ?

1. Follow the default settings to set up the related settings, and connect the hardware.
2. Activate the Web browser and key in the Video Server URL.
3. SETUP –> Network button.
4. Select „Enable UPnP presentation".
5. Select „Enable UPnP port forwarding"; make the „Forwarding Port" setting.

NOTE:

1. **Perform the step 4 above; turn on the PC's „My Web Neighbors" and confirm if the Video Server can be found, and click to go online to the Video Server's first page.**
2. **Perform the step 5 above; make the Route UPnP port forwarding setting.**
3. **Your PC can connect to the Video Server webpage via the router.**

   By working with the router, the Video Server can operate the port mapping (the port forwarding) function. For example, if the router configures a particular port, say port „8080", to your Video Server, you can input the IP address as http://xxx.xxx.xxx.xxx:8080 on the URL entry box of the web browser to access the device's web setting page.

Question 3:

How to change the Video Profiles 1, 2, 3 ?

1. Plug the power cable into the Video Server power connector.
2. Plug the network cable into the Video Server Ethernet terminal.
3. Confirm the web-connection status; the connection between the PC & HUB and between the Video Server & HUB is now activated.
4. Confirm that the IP addresses of the PC and the Video Server are in the same sub-net.
5. Activate the Web browser and key in the Video Server's URL.
6. Switch to the front-page of Live; click Profiles 1, 2 & 3.

Question 4:

How do I set up the motion detection area and its sensitivity ?

- **Set up the motion detection**
  1. Activate the Web browser and key in the Video Server IP Address.
  2. SETUP –> Application button –> Motion Detection button.
  3. Select „Enable Video Motion".
  4. Set up the target zone you want and setup the Sensitivity and Percentage.
  5. Click the Submit button to submit the setting.
  6. When any person or object moves within the target zone under a setting, the Motion Detection will display the response signal in the Live Video and Video Out.

Question 5:

How do I use the DynDNS to connect the Video Server by using its Sub Hostname via the intranet ?

- **Set the DDNS function**
  1. Click the Network button in the Setup page.
  2. Click the Dynamic DNS button on the left side of the page to enter the „Dynamic DNS" setting page.
  3. Check on the „Enable DDNS" Function to activate it.
  4. Enter the DDNS Host Name, DDNS Account and DDNS Password which you created in the www.dyndns.com website.
  5. Click on the Submit button to submit the setting.

  NOTE: Please refer to the APPENDIX 2 for more details.

- **Set the PPPoE function**
  1. Click the Network button in the Setup page.
  2. Click the PPPoE button on the left side of the page to enter the „PPPoE" setting page.
  3. Check on the „Enable" Function to activate it.
  4. Enter the User Name and the Password which are provided from your ISP.
  5. Click the Submit button to submit the setting.

  NOTE: Please refer to section 6.1.3.8 for more details.

- **Use the Sub Hostname to view the Video Server**
  1. Click the URL block at the top of the PC screen.
  2. Enter the DDNS Host Name of the Video Server into the URL block and press the „Enter" button to enter the login page.
  3. Enter the user name and fill in the password.
  4. Click the „OK" button and enter the home page of the Video Server.

Question 6:

How to add or modify the users and their authorities of using the Video Server ?

- **Entering the setting page**
  1. Click the System button in the Setup page.
  2. Click the User button on the left side of the page to enter the „USER" page.

- **Add a new user**
  1. Please enter the user name, the password, the confirmed password and choose the authority.

     There are three different levels of authorities, namely Admin, Operator and Viewer.

     Admin: The user who accesses with the admin name and password has the full rights to change the settings of the Video Server.

     Operator: The suggested choice for normal use.

     Viewer: The user who accesses with just the viewer name and password has only limited rights to view.
  2. Click the **Add/Modify User** button to submit the new user's setting.

- **Modify the user**
  1. Click the user name you want to modify on the USER LIST.
  2. Enter the password, the confirmed password and choose the authority.
  3. Click the **Add/Modify User** button to submit the new setting.

- **Delete a user**
  1. Click the user name you want to delete on the USER LIST.
  2. Click the **Delete User** button.

Question 7:

How to create the self-signed certificate manually ?

1. Accurately connect all the devices.
2. Activate the Web browser and key in the device IP Address.
3. Setup –> Network button –> HTTPS button
4. Select „Enable secure HTTPS connection".
5. Create certificate settings –> Create self-signed certificate manually –> Create.
6. Fill in the relevant data in the text boxes of the items titled Country, State or province, Locality, Organization, Organization Unit, Common Name & Validity; click „Create".

Question 8:

How to download the log list ?

1. Click Set up –> Status –> Log.
2. The normal display will show the log list page.
3. Click First Page, Previous 20 or Next 20 to examine the recording list.
4. Click Download; select the storing path; and download the recording list.

8. Specifications

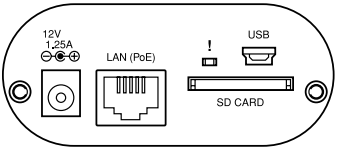
Type	**GLS-2302H**
Art. No.	**92708**
Series	eneo GL
Video encoding/decoding	720x576 Full D1, 352x288 CIF, 176x144 QCIF. GOP structure: I (MP=0), IP (M=1), IPB (M=2), IBB (M=3) „Low latency" mode, Field/Frame based coding, selectable frame rate: 1-50/60 Fields/sec.
Compression standard	H.264, MPEG-4, MJPEG
Web browser	MS Internet Explorer vers. 7.0 or higher, Netscape version 4.5 min., Google Chrome (Java), Mozilla Firefox (Java), Safari (Java)
Ethernet interface	10Base-T, 100Base-TX, RJ-45
Network protocols	3GPP, IPv4, DHCP, HTTP, HTTPS, DDNS, UPnP, DNS, FTP, SNTP, SMTP, RTSP, UDP, TCP
Configuration	via web browser
Picture adjustments	colour, brightness, contrast
Stream types	H.264, MPEG-4, MJPEG multiple
Frame rate	Max. 25 frames/sec.
Resolution	720x576 (4:3), 352x288 (4:3)
Resolution max.	720x576
Image transmission rate max.	25 images/sec.
Video inputs (amount)	1
Audio support	yes
Audio In-/Output	1/1 two-way audio streaming
Motion detector	96 areas, 5 levels
Audio input	1x Line-in 3Vp-p, approx. 50kohms
Audio output	line output
Alarm inputs	yes
Alarm processing	alarm triggered by build-in motion detection, external alarm. Alarm notify to ANNP, e-mail, FTP, SD card, alarm out
Alarm output	Open Collector (5V / 0.02A max.)
e-PTZ support	yes
Activity detection	yes
Internal storage	SD card
Pre-alarm recording	1 to 10sec.
Post-alarm recording	1 to 10sec.
Access	10 users simultaneous support
Serial interfaces	no

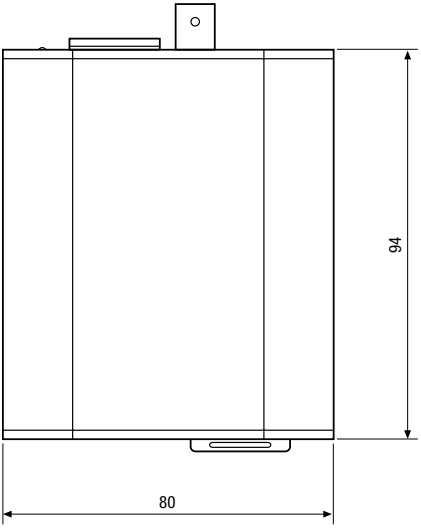
Firmware update	via network
Menu languages	German, English, French, Italian, Dutch, Spanish, Swedish, Finnish, Hungarian, Czech, Polish, Portugese, Russian, Turkish, Chinese
Password protection	yes, 3 password levels
Power over Ethernet	yes, IEEE 802.3af
Supply voltage	12VDC, PoE
Management Software Support	GL-Manager, Zelaris (limited)
ONVIF	core specifications 1.01
Certificates	CE
19" Rack mountable	no
Dimensions	see drawings
Temperature range (operation)	0°C ~+45°C
Special features	installation wizard via web browser

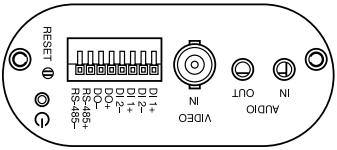
Optional Accessories

The optional accessories currently available can be found on our Homepages: www.videor.com and www.eneo-security.com

9. Dimensional Drawings





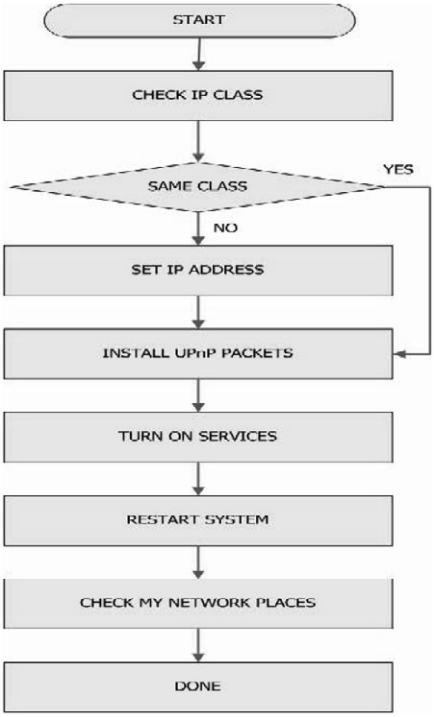


Dimensions: mm

APPENDIX 1

How to run the Video Server UPnP

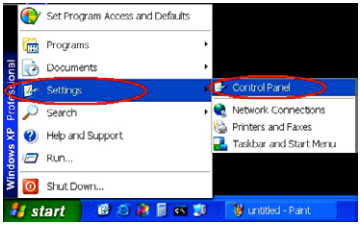
The most troublesome issue when you setup a Video Server is that you have no idea what the IP address of this device is. Now the Video Server supports the UPnP (Universal Plug and Play) protocol which makes it easier for you to examine it; however, it is a pity that Microsoft Windows XP® doesn't start this service by default. Therefore, the following procedures will help you to turn it on and discover your Video Server step by step as shown below.



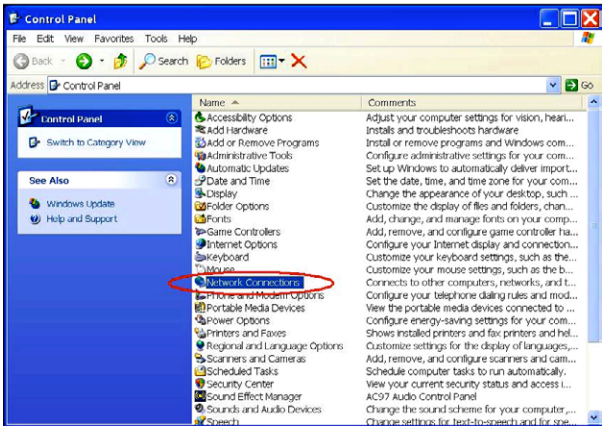
1. Check the IP class of your PC

In most case Microsoft Windows XP® will assign an IP address, 169.254.*.*, automatically with a subnet mask, 255.255.0.0, if the DHCP server is absent, while the default IP address of a Video Server is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication due to different IP class domains, and you have to modify the relative settings or the UPnP protocol won't work; however, checking your own IP address is necessary. Here are the procedures to check and modify them.

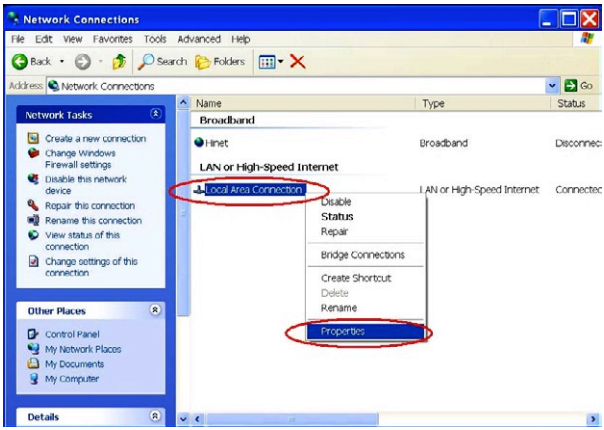
Step 1: From the **Start menu**, point to **Settings**, and then click **Control Panel**.



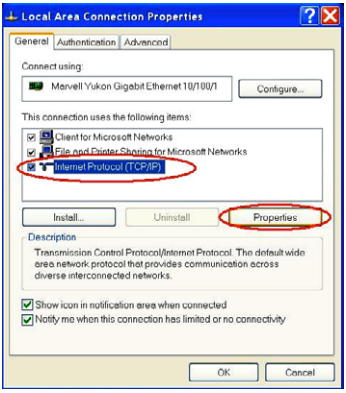
Step 2: When **Control Panel** appears, double-click the **Network Connections** icon.
The **Network Connections** dialog box appears.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Address Control Panel
Go
Control Panel
Switch to Category View
See Also
Windows Update
Help and Support
Name
Comments
Accessibility Options
Add Hardware
Add or Remove Programs
Administrative Tools
Automatic Updates
Date and Time
Display
Folder Options
Fonts
Game Controllers
Internet Options
Keyboard
Mouse
Network Connections
Phone and Modem Options
Portable Media Devices
Power Options
Printers and Faxes
Regional and Language Options
Scanners and Cameras
Scheduled Tasks
Security Center
Sound Effect Manager
Sounds and Audio Devices
Speech
Adjust your computer settings for vision, hearing, ...
Installs and troubleshoots hardware
Install or remove programs and Windows components
Configure administrative settings for your computer
Set up Windows to automatically deliver important ...
Set the date, time, and time zone for your computer
Change the appearance of your desktop, such as ...
Customize the display of files and folders, change ...
Add, change, and manage fonts on your computer
Add, remove, and configure game controller hardware
Configure your Internet display and connection ...
Customize your keyboard settings, such as the ...
Customize your mouse settings, such as the b...
Connects to other computers, networks, and the ...
Configure your telephone dialing rules and modem ...
View the portable media devices connected to ...
Configure energy-saving settings for your computer
Shows installed printers and fax printers and help ...
Customize settings for the display of languages, ...
Add, remove, and configure scanners and cameras
Schedule computer tasks to run automatically
View your current security status and access i...
AC97 Audio Control Panel
Change the sound scheme for your computer
Change settings for text-to-speech and for spe...

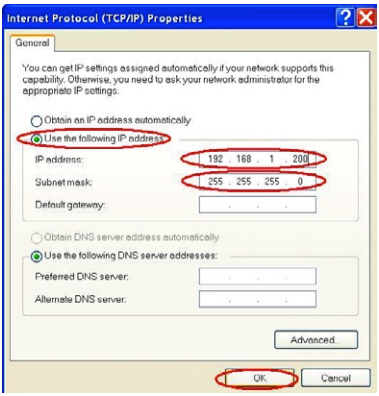
Step 3: Click the **Properties** tab in the **Network Connections** dialog box.



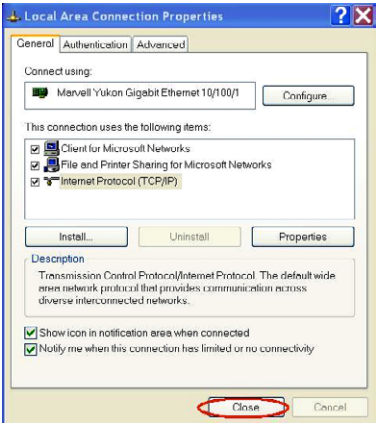
Step 4: When the **Local Area Connection Properties** dialog box shows up, choose **Internet Protocol (TCP/IP)** and click **Properties**.



Step 5: In the **Internet Protocol (TCP/IP) Properties** dialog box, choose **Use the following IP Address** to indicate that you do not wish to use DHCP, and assign IP Address 192.168.1.200 with Subnet mask 255.255.255.0. Click **OK** when you finish it.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 1 . 200
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

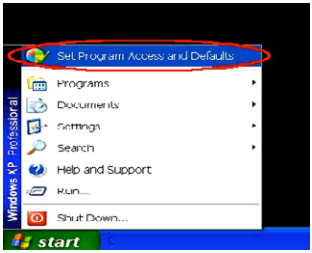
Step 6: Choose **Close** to finish the modification.



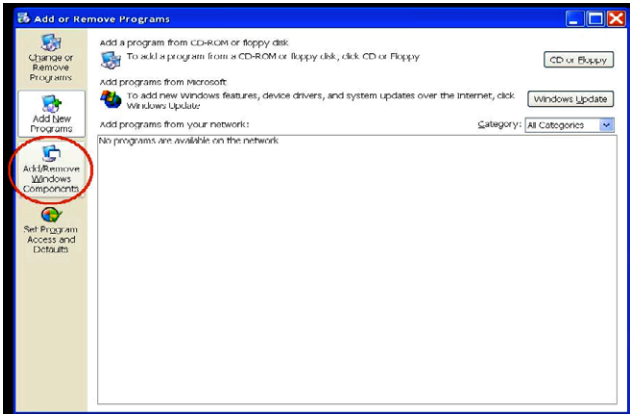
2. Install UPnP Packets

As described before, Microsoft Windows XP® doesn't start the UPnP service by default; however, we have to install some packets before we initialize it. The following steps will help you to install them.

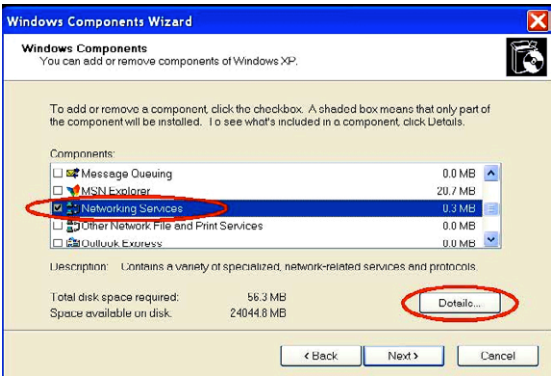
Step1: From the **Start menu**, point to **Set Program Access and Default**, and then click it.



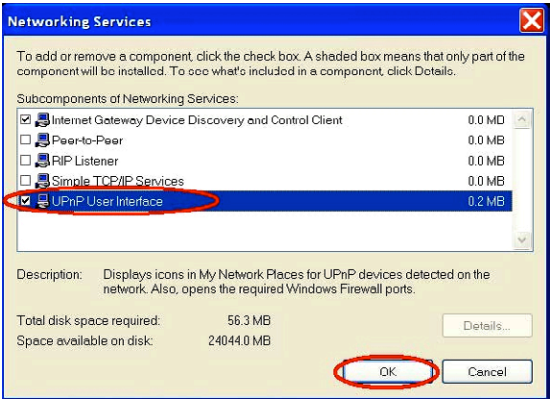
Step 2: When the **Add or Remove Programs** dialog box appears, click the **Add/Remove Windows Components** button.


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Add a program from CD-ROM or floppy disk:
To add a program from a CD-ROM or floppy disk, click CD or Floppy.
CD or Floppy...
Add programs from Microsoft:
To add new Windows features, device drivers, and system updates over the Internet, click Windows Update.
Windows Update
Add programs from your network:
Category: All Categories
No programs are available on the network.

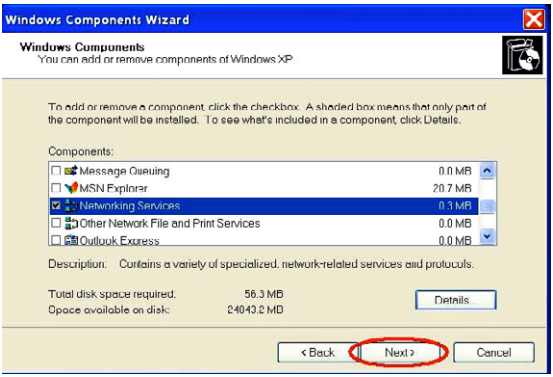
Step 3: Check the **Network Services** in the **Windows Component Wizard** dialog box, and then click **Details...**.


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 20.7 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 56.3 MB
Space available on disk: 24044.8 MB
Details...
< Back
Next >
Cancel

Step 4: Check **UPnP User Interface**, and choose **OK**.


Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
Peer-to-Peer 0.0 MB
RIP Listener 0.0 MB
Simple TCP/IP Services 0.0 MB
UPnP User Interface 0.2 MB
Description: Displays icons in My Network Places for UPnP devices detected on the network. Also, opens the required Windows Firewall ports.
Total disk space required: 56.3 MB
Space available on disk: 24044.0 MB
Details...
OK
Cancel

Step 5: When the original **Network Component Wizard** dialog box returns, click **Next**.


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 20.7 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 56.3 MB
Space available on disk: 24043.2 MB
Details
< Back
Next >
Cancel

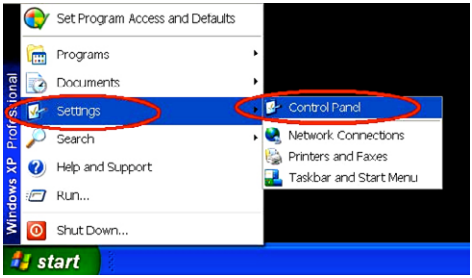
Step 6: After about one minute the UPnP installation will be done, and choose **Finish** to close it.

Windows Components Wizard
Completing the Windows Components Wizard
You have successfully completed the Windows Components Wizard.
To close this wizard, click Finish.
< Back
Finish

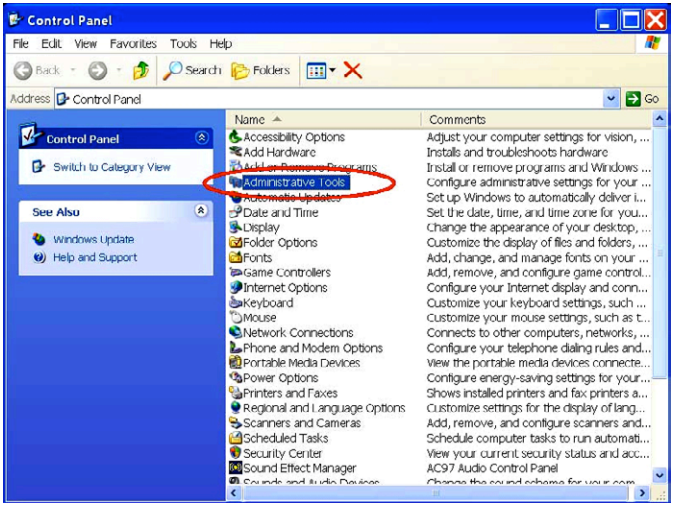
3. Turn on Services

After installation, we should turn on the relative services to start the UPnP protocol. The following procedures will teach you how to do it.

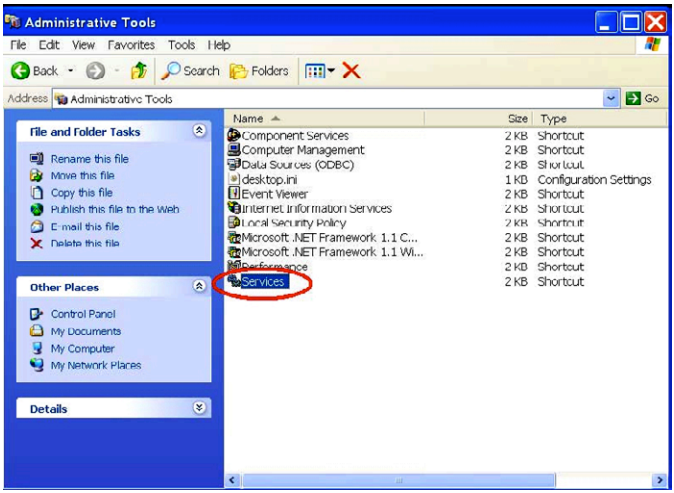
Step 1: From the **Start menu**, point to **Settings**, and then click **Control Panel**.



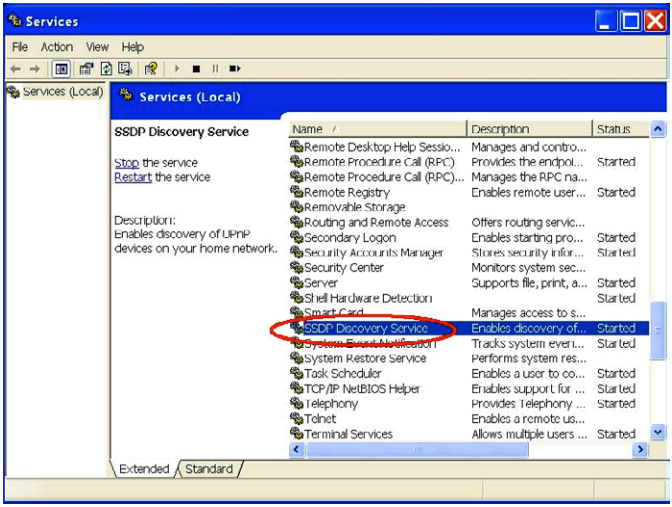
Step 2: When **Control Panel** appears, double-click the **Administrative Tools** icon. The **Administrative Tools** dialog box appears.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Address Control Panel
Go
Control Panel
Switch to Category View
See Also
Windows Update
Help and Support
Name
Comments
Accessibility Options
Add Hardware
Administrative Tools
Date and Time
Display
Folder Options
Fonts
Game Controllers
Internet Options
Keyboard
Mouse
Network Connections
Phone and Modem Options
Power Options
Printers and Faxes
Regional and Language Options
Scanners and Cameras
Scheduled Tasks
Security Center
Sound Effect Manager
Adjust your computer settings for vision, ...
Installs and troubleshoots hardware
Configure administrative settings for your ...
Set up Windows to automatically deliver i...
Set the date, time, and time zone for you...
Change the appearance of your desktop, ...
Customize the display of files and folders, ...
Add, change, and manage fonts on your ...
Add, remove, and configure game control...
Configure your Internet display and conn...
Customize your keyboard settings, such ...
Customize your mouse settings, such as t...
Connects to other computers, networks, ...
Configure your telephone dialing rules and...
View the portable media devices connecte...
Configure energy-saving settings for your...
Shows installed printers and fax printers a...
Customize settings for the display of lang...
Add, remove, and configure scanners and...
Schedule computer tasks to run automati...
View your current security status and acc...
AC97 Audio Control Panel

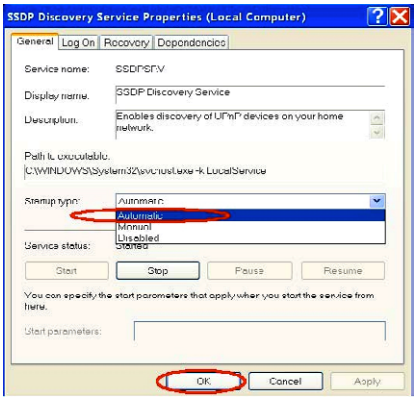
Step 3: Click the **Services** icon in the **Administrative Tools** dialog box.



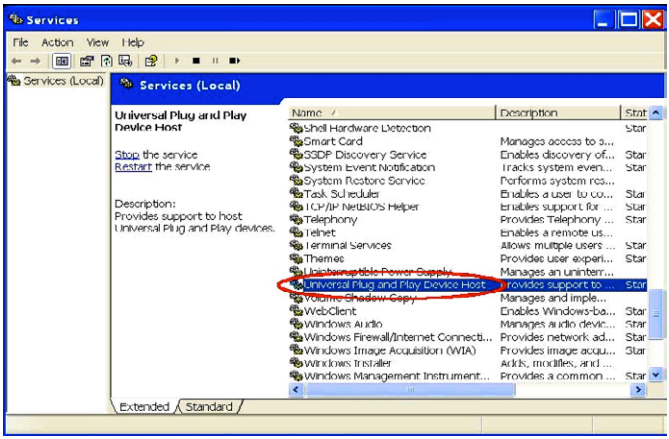
Step 4: When the **Services** dialog box shows up, double click the **SSDP Discovery Service** icon.


Services
File Action View Help
Services (Local)
Services (Local)
SSDP Discovery Service
Stop the service
Restart the service
Description:
Enables discovery of UPnP devices on your home network.
Name Description Status
Remote Desktop Help Sessio... Manages and contro...
Remote Procedure Call (RPC) Provides the endpoi... Started
Remote Procedure Call (RPC)... Manages the RPC na...
Remote Registry Enables remote user... Started
Removable Storage
Routing and Remote Access Offers routing servic...
Secondary Logon Enables starting pro... Started
Security Accounts Manager Stores security infor... Started
Security Center Monitors system sec...
Server Supports file, print, a... Started
Shell Hardware Detection Started
Smart Card Manages access to s...
SSDP Discovery Service Enables discovery of... Started
System Event Notification Tracks system even... Started
System Restore Service Performs system res...
Task Scheduler Enables a user to co... Started
TCP/IP NetBIOS Helper Enables support for ... Started
Telephony Provides Telephony ... Started
Telnet Enables a remote us...
Terminal Services Allows multiple users ... Started
Extended Standard

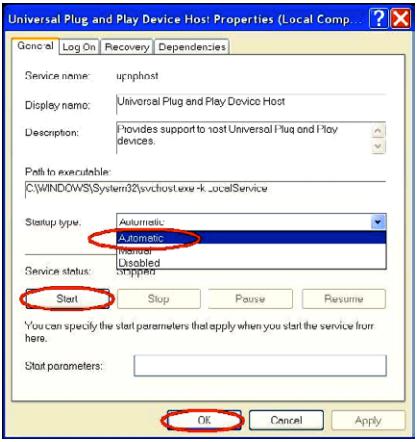
Step 5: Choose **Automatic** in the **Startup type**, and click **OK** to start it.



Step 6: When the **Services** dialog box appears again, double click the **Universal Plug and Play Device Host** icon.



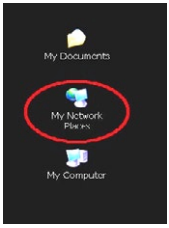
Step 7: Choose **Automatic** in the Startup type, press the **Start** button, and click **OK** to start it.

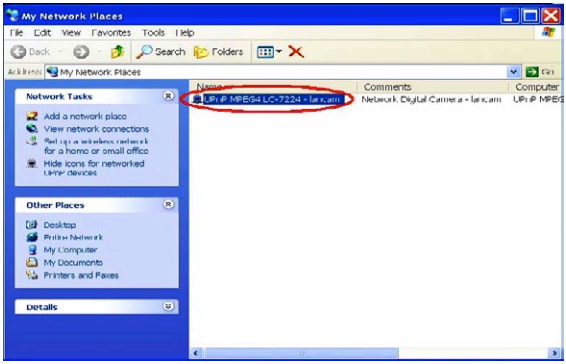


Step 8: Restart your system.

4. Scan Video Server through My Network Place

After your installation and starting services, the UPnP protocol will take effect. You can scan all devices in My Network Place like below.





Just double click the device icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer®.

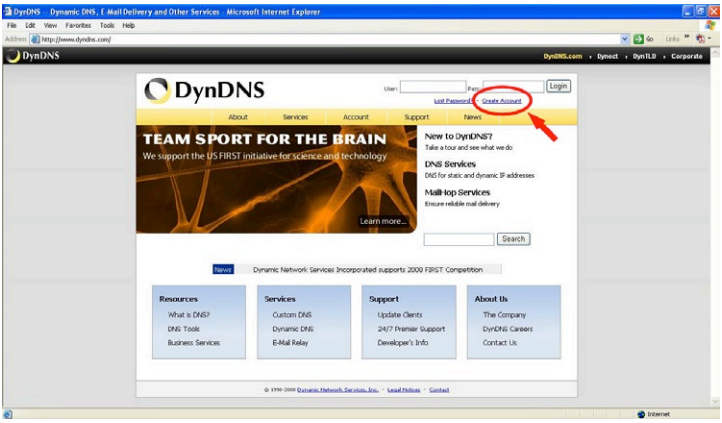
APPENDIX 2

Register as a DDNS Member

The DDNS (dynamic domain name system) is a function which is provided by an American company. Please refer to www.dyndns.com. This chapter provides the user with the basic instructions on how to register a free DDNS service.

Registering for a DDNS

Enter the URL www.dyndns.com. In the upper right-hand corner of the main page, where there is an item, „Create Account", as shown below.

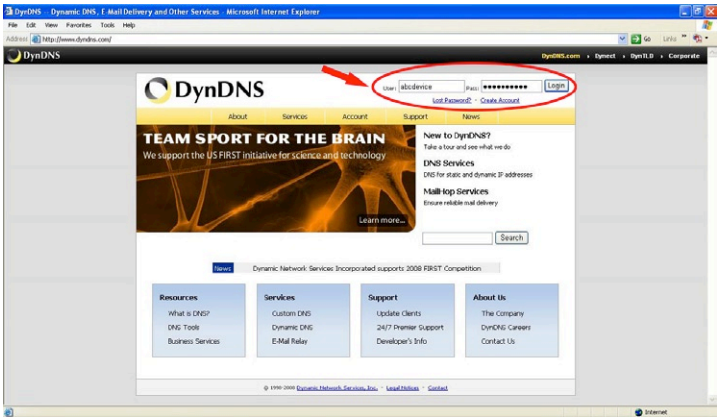


Create an account

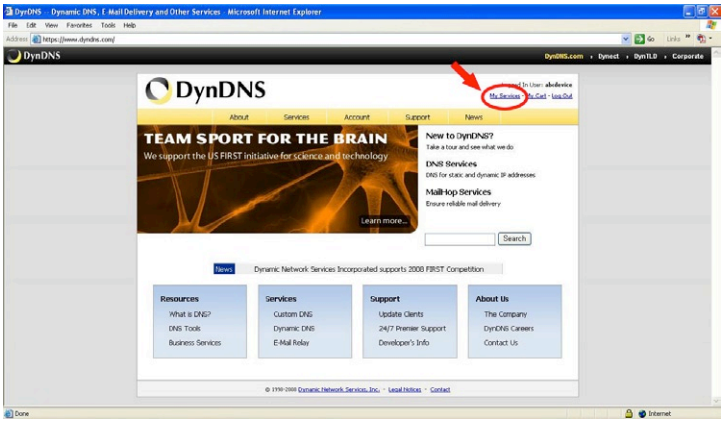
After clicking „Create Account", you will enter the Create Account page. Please complete the form at the bottom of the page to create your account. You will receive an e-mail containing instructions to activate your account. If you do not follow the directions within 48 hours, you will need to recreate your account.

Set up the DDNS

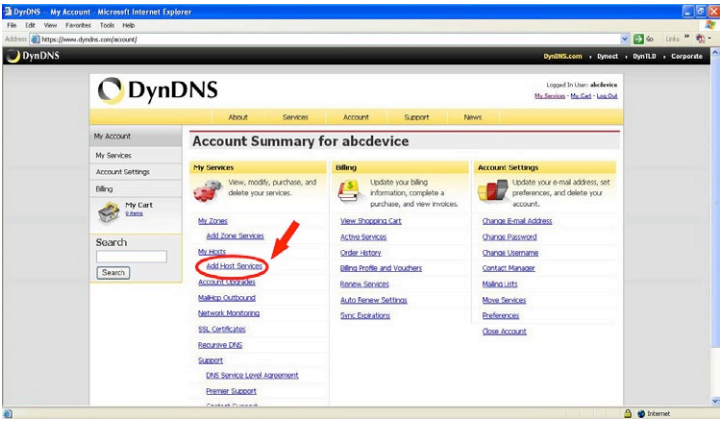
After creating the account successfully, please enter your user name and password in the upper right-hand corner of the main page to login, as shown below.



After you login successfully, a text will appear saying „My Services", as shown below.

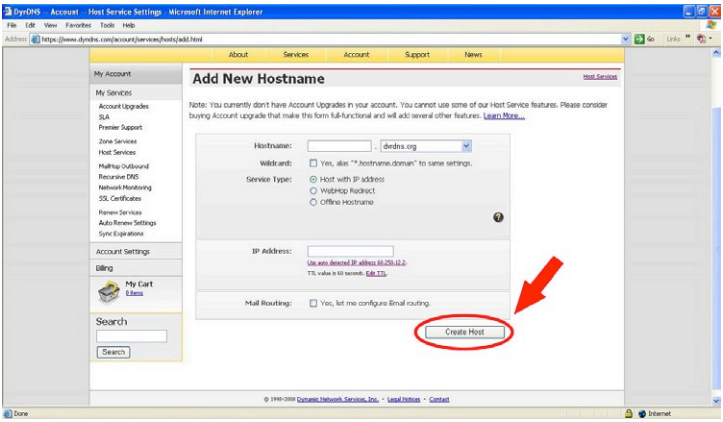


Click „My Services" to enter the service page. Please click the „Add Host Service" item which is below the „My Hosts" item, as shown below.



Click „Add Host Service", and its service items will appear. The Add Dynamic DNS Host item helps to add a new DDNS. Each member may have only one free account, and one free account can have only five DDNS.

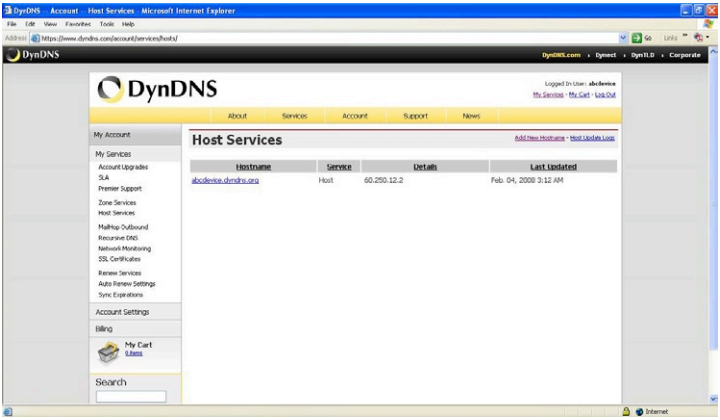
Click Add Dynamic DNS Host to enter the DDNS setting page as shown below.



All we have to set in this page is the „Hostname" item. The user can choose a Sub Hostname as s/he likes from the right-hand side of the Hostname's drop-down list.

NOTE: You don't have to set the „IP Address" in the same format as the Video Server's IP Address. It will renew the IP Address automatically.

After finishing the setting, please press the „Create Host" button as shown below.



APPENDIX 3

MPEG4 Bit Rate Table for the Video Server

1. When frame rate is higher than 15 frames/second (15 is not including):

	Highest	High	Medium	Low	Lowest
FULL D1	3	2.5	2	1.5	1
VGA	2.63	2.25	1.75	1.31	0.88
2CIF	1.5	1.25	1	0.75	0.5
Half VGA	1.31	1.13	0.88	0.67	0.44
CIF	0.75	0.63	0.5	0.38	0.25
QVGA	0.66	0.56	0.44	0.38	0.22
ZOOM * 2	3	2.5	2	1.5	1
ZOOM * 3	3	2.5	2	1.5	1
ZOOM * 4	3	2.5	2	1.5	1

2. When frame rate is lower or equal to 15 frames/second:

	Highest	High	Medium	Low	Lowest
FULL D1	2.25	1.94	1.5	1.13	0.75
VGA	1.94	1.69	1.31	0.98	0.66
2CIF	1.13	0.94	0.75	0.56	0.38
Half VGA	0.98	0.84	0.66	0.49	0.33
CIF	0.56	0.47	0.44	0.28	0.19
QVGA	0.5	0.44	0.34	0.25	0.19
ZOOM * 2	2.25	1.88	1.5	1.125	0.75
ZOOM * 3	2.25	1.88	1.5	1.125	0.75
ZOOM * 4	2.25	1.88	1.5	1.125	0.75

* The unit is in Mbps/second

APPENDIX 4

PoE Installation Method

WARNING:

Please follow the steps in this instruction carefully. Connecting these adapters incorrectly may result in damage to your network devices.

1. Provided accessories:

	Video Server
	Ethernet (CAT5 UTP/Straight through) cable
Operating Manual, CD	

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